



Publications catalogue

Resources for continued development for chemical, process and related engineers



IChemE training



IChemE has a range of training taking place throughout its yearly programme, delivered at locations across the world and in-company. These quality-assured courses cover a range of subject areas including: safety, technical, process, professional and soft skills and project management, so you can be sure to find a course that meets your development needs.

To request a free copy of our course catalogue email courses@icheme.org

Full details can also be found online by visiting www.icheme.org/courses

All of our courses can be run in-house, at a time and location to suit you. For more information contact courses@icheme.org

Human factors in health and safety

A professional development programme running throughout the year for the process industries, which includes modules on: An introduction to human factors, Human reliability and failure, organisational issues and Human factors and design.

For further information and to register, visit: www.icheme.org/humanfactors

IChemE

The Institution of Chemical Engineers (IChemE) is the hub for chemical, biochemical and process engineering professionals worldwide. We are the heart of the process community, promoting competence and a commitment to sustainable development, advancing the discipline for the benefit of society and supporting the professional development of members.

IChemE is the professional body for chemical and process engineers. Originally founded in 1922, IChemE has grown continuously to its current status as a leading engineering organisation with an international membership of over 32,000 in 120 countries.

As well as promoting the advancement of chemical engineering science and practice within the profession, we aim to increase public recognition of chemical engineering, both in terms of what chemical and process engineers do and the benefits that their work brings to society.

IChemE is active in developing and raising standards in education, accrediting courses at some 60 higher education institutions, more than half of which are outside the UK. We also encourage our members to develop further knowledge and skills after qualification through programmes of continuing professional development.

We maintain a physical presence in Rugby, London, Kuala Lumpur, Melbourne, Shanghai and Wellington.

In addition, we provide an extensive network of regional and specialist interest groups along with a thriving young members group.

IChemE directory

Rugby

Davis Building
Railway Terrace
Rugby
CV21 3HQ, UK

Tel: +44 (0) 1788 578214
Fax: +44 (0) 1788 560833

London

1 Portland Place
London
W1B 1PN, UK

Tel: +44 (0) 20 7927 8200
Fax: +44 (0) 20 7927 8181

Australia

Suite 11-2
488 Bourke Street
Melbourne
VIC 3000

Tel: +61 (0) 3 9642 4494
Fax: +61 (0) 3 9642 4495

Malaysia

Suite 31-3, 31st Floor
Wisma UOA II
No.21, Jalan Pinang
50450 Kuala Lumpur

Tel: +603 2166 0822
Fax: +603 2166 0922

SCENZ-IChemE in New Zealand

P.O Box 5714
Lambton Quay
Wellington 6145

Tel: +60 (0) 3 2166 0822
Fax: +60 (0) 3 2166 0922

IChemE in China

16 Floor, Feidiao International Building
1065 Zhaojiabang Road
Shanghai 200030

Tel: +86 21 5158 1626
Fax: +86 21 5158 1686

IChemE contacts

For more information about conferences

conferences@icheme.org

To request a copy of the courses directory

courses@icheme.org

For more information about member groups

membergroups@icheme.org

For more information about our Special Interest Groups

specialinterestgroups@icheme.org

For more information about becoming a member

ukmembers@icheme.org
austmembers@icheme.org
malaysianmembers@icheme.org

For information about policy, positioning and communications strategy including public affairs work

pr@icheme.org

To purchase publications and training packages

sales@icheme.org

Invitation to authors

IChemE and Elsevier/Butterworth Heinemann welcome proposals from potential authors for new titles in all areas of chemical and process engineering.

If you have an idea for a book contact Jonathan Simpson at Elsevier on +44 (0) 1865 844644 or [Email: j.simpson@elsevier.com](mailto:j.simpson@elsevier.com) to discuss publishing opportunities in the IChemE books series.

Contents

About IChemE	3	The Trevor Kletz collection	21
How to order	4	Safety and loss prevention	22
Coming soon and latest releases	5	Project management/process plant design and operation	25
IChemE and Elsevier/Butterworth Heinemann	8	General	26
BP process safety series and animations	12	Serial publications	28
Forms of contract	16	Index	29
Safety training	20		

How to order

UK, Europe, rest of the world (RoW) including India, Singapore and Malaysia

Purchase online by visiting www.icheme.org/shop

IChemE
Davis Building
Railway Terrace
Rugby
Warwickshire
CV21 3HQ, UK

Tel: +44 (0) 1788 578214
Fax: +44 (0) 1788 560833
Email: sales@icheme.org

Prices and payment

All publication dates, prices and other details are correct at the time of going to press but may be subject to change without further notice. Contact sales@icheme.org with any enquiries.

Payment can be made to Rugby by any of the following: cheque (drawn on a UK bank), made payable to IChemE, credit card (VISA, VISA Debit, VISA Electron, Debit MasterCard, MasterCard, AMEX, Delta, Maestro, Solo) or bank transfer (contact sales@icheme.org for details). Agents can be contacted for price lists and instructions by phone, fax or email.

Representative

Australia and New Zealand

DA Information
648 Whitehorse Road
Mitcham
3132, Australia

Tel: +61 (0) 39210 7777
Fax: +61 (0) 39210 7788
Email: service@dadirect.com.au

Elsevier/Butterworth Heinemann titles

Order these via www.icheme.org/shop or
Tel: +44 (0) 1865 474003

Coming soon and latest releases

Form of contract: lump sum contracts – the Red Book, 5th edition (UK version)

£45.00
ISBN 978 0 85295 542 0
November 2012
97 pages (est), softback

No IChemE member discount

Suitable for use in lump sum contracts in a wide range of industries, particularly those where a high technical input is required in design and construction and where a proven system or service is required for the completed project. The latest edition has been revised to bring it in line with recent UK legislation and to reflect current thinking on best project management practice; realigned clauses throughout the series ensures consistency; insurance and performance testing clauses have undergone detailed review and updating.

Form of contract: reimbursable contracts – the Green Book, 4th edition (UK version)

£45.00
ISBN 978 0 85295 543 7
November 2012
100 pages (est), softback

No IChemE member discount

Based on the philosophy of co-operation between parties to achieve the mutual objective of a successful project, the *Green Book* aims to enable the user to put together a reimbursable contract to suit most needs, incorporating the particular cost and payment elements of a reimbursable contract. The latest edition has been revised to bring it in line with recent UK legislation to reflect current thinking on best project management practice; realigned clauses throughout the series ensures consistency; insurance and performance testing clauses have undergone detailed review and updating.

Form of contract: target cost contracts – the Burgundy Book 2nd edition (UK version)

£45.00
ISBN 978 0 85295 544 4
November 2012
109 pages (est), softback

No IChemE member discount

The intention of a target cost contract is to encourage both parties in the contract to work together in order to find ways of carrying out the work as efficiently as possible and to be rewarded as a result (i.e. pain/gain share). The contracts set out a procedure for arriving at a target cost that is sufficiently detailed to be used as the basis for effective control. The latest edition has been revised to bring it in line with recent UK legislation and to reflect current thinking on best project management practice; realigned clauses throughout the series ensures consistency; insurance and performance testing clauses have undergone detailed review and updating.

Form of contract: subcontracts – the Yellow Book, 4th edition (UK version)

£45.00
ISBN 978 0 85295 545 1
November 2012
75 pages (est), softback

No IChemE member discount

Compatible with the *Red*, *Green* and *Burgundy Books*, the *Yellow Book* is intended primarily for subcontracts that include the design, supply, site construction, erection and/or installation and testing of equipment, and when the subcontract is to supply equipment that is significant in the main contract plant. The fourth edition has been updated to work fully back-to-back with the new editions of the *Red*, *Green* and *Burgundy Books*.

Form of contract: subcontracts for civil engineering works – the Brown Book, 3rd edition

£45.00
ISBN 978 0 85295 546 8
November 2012
66 pages (est), softback

No IChemE member discount

Specifically for civil engineering subcontracts in relation to work that is often required prior to the construction of the process elements of a process plant, such as access roadways, foundations and other 'non-process plant' elements. Updated to work fully back-to-back with the new editions of the *Red*, *Green* and *Burgundy Books*.

Salary survey 2012 (UK and Ireland)

£180.00
ISBN 978 0 85295 560 4

Salary survey 2012 (Australia)

ISBN 978 0 85295 561 1

No IChemE member discount

The *Salary surveys* contain current data and analysis of the pay and benefits of professional chemical engineers at all levels. The surveys are 'must have' tools for all HR departments, whether recruiting new staff for the process industries or for use in benchmarking salaries of the current workforce.

Rules of thumb for chemical engineers, 5th edition

By Stephen Hall
ISBN 9780123877857
July 2012, 448 pages, softback

IChemE member discount: 15%

The most complete guide of its kind, this is the favoured handbook for chemical and process engineers who need a reliable and authoritative solution to their practical on the job problems. Includes all new material on modern processing sectors, including biopharmaceuticals. This edition is comprehensively revised and updated with new data and formulas.

Lees' loss prevention in the process industries, 3rd edition - hazard identification, assessment and control

By Sam Mannan
ISBN 9780750675550
July 2012, 3710 pages, hardback

IChemE member discount: 15%

Written in a clear and concise style, this 'bible' for the process industries, covers traditional areas of personal safety as well as the more technological aspects, providing in-depth coverage. New detail is added to chapters on fire safety, engineering, explosion hazards, analysis and suppression, and new appendices feature more recent disasters.

Sustainable design through process integration

By Mahmoud M. El-Halwagi
£65.00
ISBN 9781856177443
July 2011, 448 pages, hardback

IChemE member discount: 15%

Whether you are a process engineer, an industrial decision maker, or a researcher, this book will be an indispensable resource tool for systematically enhancing process performance and developing novel and sustainable process designs. Ideal for a text in an upper level undergraduate or an introductory graduate course

Chemical and process plant commissioning handbook

By Martin Killcross
£75.99
ISBN 9780080971742
November 2011, 312 pages, hardback

IChemE member discount: 15%

The complete practical handbook on the process and detail of chemical and process plant commissioning. Good commissioning is based on a disciplined, systematic and proven methodology and approach that will convert newly constructed plant or equipment into a fully integrated and operational process unit in the safest, most efficient, cost effective and timely manner. This book is a guide and reference to the steps required to achieve that goal.

Biomass gasification and pyrolysis: practical design and theory

By Prabir Basu
£85.00
ISBN 9780123749888
July 2011, 376 pages, hardback

IChemE member discount: 15%

Explains the basic principles of energy conversion and biomass conversion systems and also provides valuable insight into the design of biomass gasifiers. Thorough in his coverage, the author provides many worked out design problems, step-by-step design procedures, and real data on commercially operating systems.

Safe furnace and boiler firing, 2012 edition

£22.00
ISBN 9780852955567
February 2012, 89 pages, softback

Helps the reader understand the basic principles for safe use of furnace and boilers in plants, and what can occur if these principles are not followed. With sections dedicated to how fired heaters work, explosions, fuel systems, burners and furnace lighting and shutdown, the guide concludes with a test paper. The 2012 edition includes new material and case studies related to maintenance, burner management systems and shutdowns. An ideal introductory text for students, this title is also an excellent reference and training tool for more experienced workers.

Coming soon and latest releases

Human toxicology of chemical mixtures

By Harold Zeliger
£170.00
ISBN 9781437734638
July 2011, 576 pages, hardback

IChemE member discount: 15%

In this important reference work, the author catalogues the known effects of chemical mixtures on the human body and also proposes a framework for understanding and predicting their actions in terms of lipophile (fat soluble) / hydrophile (water soluble) interactions. The author's focus is on illnesses that ensue following exposure to mixtures of chemicals that cannot be attributed to any one component of the mixture.

Using risk graphs for Safety Integrity Level (SIL) assessment - a user-guide for chemical engineers

By Clive De Salis
£25.00
ISBN 9780852955543
April 2011, 48 pages, A4 softback

Explains how to design and calibrate a risk graph and how to understand some of the advantages and disadvantages of using risk graphs. The guide was peer-reviewed by the IChemE Safety and Loss Prevention Special Interest Group

Reliability, maintainability and risk, 8th edition

By David Smith
£54.99
ISBN 9780080969022
April 2011, 464 pages, softback

IChemE member discount: 15%

Provides engineers with the safety and risk assessment tools and techniques they need to work effectively in any safety, or reliability, critical environment. It is regarded as the core reference in this field, and the success of its approach is reflected in the popularity of this standard work. It deals with all aspects of reliability, safety-related systems, and the assessment and management of risk in a simple and straightforward way.

Hazards XXII – process safety and environmental protection

CD-ROM
£140.00
ISBN 9780852955475
April 2011

Contains 100 presentations from the April 2011 conference of the long-established Hazards series.

Process plants: a handbook for inherently safer design

By Trevor Kletz and Paul Amyotte
£58.00
ISBN 9781439804551
April 2011, 362 pages, hardback

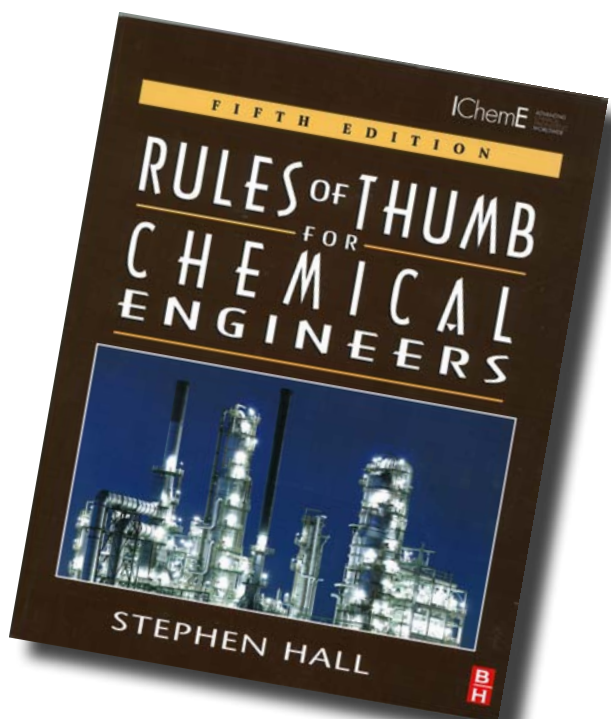
The second edition demonstrates not just the importance of prevention, but the importance of designing with prevention in mind. It emphasises the role of inherent safety in process safety management systems and in ensuring an appropriate process safety culture. Keeping the easy to understand style, this book clearly delineates practical, everyday issues and complex technical ones.

Power electronics handbook, 3rd edition

By Muhammad Rashid
£120.00
ISBN 9780123820365
January 2011, 1362 pages, hardback

IChemE member discount: 15%

Designed to appeal to a new generation of engineering professionals, it features four new chapters covering renewable energy, energy transmission, and energy storage, as well as an introduction to distributed and cogeneration (DCG) technology, including gas turbines, gensets, microturbines, wind turbines, variable speed generators, photovoltaics and fuel cells.



IChemE and Elsevier/ Butterworth Heinemann

IChemE has a publishing partnership with Elsevier to publish books in the Butterworth Heinemann imprint which will reach the engineering community worldwide. Titles published under this co-branding cover key chemical, process engineering and related subjects written by leading experts in their fields.

Rules of thumb for chemical engineers, 5th edition

By Stephen Hall
ISBN 9780123877857
July 2012, 448 pages, softback

IChemE member discount: 15%

The most complete guide of its kind, this is the favoured handbook for chemical and process engineers who need a reliable and authoritative solution to their practical on the job problems. Includes all new material on modern processing sectors, including biopharmaceuticals. This edition is comprehensively revised and updated with new data and formulas.

Lees' loss prevention in the process industries, 3rd edition - Hazard identification, assessment and control

By Sam Mannan
ISBN 9780750675550
July 2012, 3710 pages, hardback

IChemE member discount: 15%

Written in a clear and concise style, this 'bible' for the process industries, covers traditional areas of personal safety as well as the more technological aspects, providing in-depth coverage. New detail is added to chapters on fire safety, engineering, explosion hazards, analysis and suppression, and new appendices feature more recent disasters.

Sustainable design through process integration

By Mahmoud M. El-Halwagi
£65.00
ISBN 9781856177443
July 2011, 448 pages, hardback

IChemE member discount: 15%

Whether you are a process engineer, an industrial decision maker, or a researcher, this book will be an indispensable resource tool for systematically enhancing process performance and developing novel and sustainable process designs. Ideal for a text in an upper level undergraduate or an introductory graduate course.

Chemical and process plant commissioning handbook

By Martin Killcross
£75.99
ISBN 9780080971742
November 2011, 312 pages, hardback

IChemE member discount: 15%

The complete practical handbook on the process and detail of chemical and process plant commissioning. Good commissioning is based on a disciplined, systematic and proven methodology and approach that will convert newly constructed plant or equipment into a fully integrated and operational process unit in the safest, most efficient, cost effective and timely manner. This book is a guide and reference to the steps required to achieve that goal.

Biomass gasification and pyrolysis: practical design and theory

By Prabir Basu
£85.00
ISBN 9780123749888
July 2011, 376 pages, hardback

IChemE member discount: 15%

Explains the basic principles of energy conversion and biomass conversion systems and also provides valuable insight into the design of biomass gasifiers. Thorough in his coverage, the author provides many worked out design problems, step-by-step design procedures, and real data on commercially operating systems.

Human toxicology of chemical mixtures

By Harold Zeliger
£170.00
ISBN 9781437734638
July 2011, 576 pages, hardback

IChemE member discount: 15%

In this important reference work, the author catalogues the known effects of chemical mixtures on the human body and also proposes a framework for understanding and predicting their actions in terms of lipophile (fat soluble) / hydrophile (water soluble) interactions. The author's focus is on illnesses that ensue following exposure to mixtures of chemicals that cannot be attributed to any one component of the mixture.

IChemE and Elsevier/ Butterworth Heinemann

Reliability, maintainability and risk, 8th edition

By David Smith
£54.99
ISBN 9780080969022
April 2011, 464 pages, softback

IChemE member discount: 15%

Provides engineers with the safety and risk assessment tools and techniques they need to work effectively in any safety, or reliability, critical environment. It is regarded as the core reference in this field, and the success of its approach is reflected in the popularity of this standard work. It deals with all aspects of reliability, safety-related systems, and the assessment and management of risk in a simple and straightforward way.

Power electronics handbook, 3rd edition

By Muhammad Rashid
£120.00
ISBN 9780123820365
January 2011, 1362 pages, hardback

IChemE member discount: 15%

Designed to appeal to a new generation of engineering professionals, it features four new chapters covering renewable energy, energy transmission, and energy storage, as well as an introduction to distributed and cogeneration (DCG) technology, including gas turbines, gensets, microturbines, wind turbines, variable speed generators, photovoltaics and fuel cells.

Clean coal engineering technology, 2nd edition

By Bruce Miller
£81.99
ISBN 9781856177108
November 2010, 696 pages, hardback

IChemE member discount: 15%

Dramatically updated to meet the needs of an ever-changing energy market, this book is a single source covering policy and the engineering involved in implementing that policy. It examines the chemistry of coal, the future engineering anatomy of a coal-fired plant and cutting-edge clean coal technologies being researched and utilised today.

Safety critical systems handbook

By David Smith and Kenneth Simpson
£69.99
ISBN 9780080967813
November 2010, 288 pages, hardback

IChemE member discount: 15%

The international functional safety standard IEC 61508 was revised in 2010, and this is the first comprehensive guide available to the revised standard. As functional safety is applicable to many industries, this book will have a wide readership beyond the chemical and process sector, including the oil and gas, power generation, nuclear, aircraft, and automotive industries, plus project, instrumentation, design, and control engineers.

Handbook of industrial hydrocarbon processes

By James Speight
£95.00
ISBN 9780750686327
December 2010, 608 pages, hardback

IChemE member discount: 15%

Features flow diagrams and descriptions of more than 250 leading-edge process technologies; analysis of chemical reactions and process steps that are required to produce chemicals from various raw materials and properties; availability and environmental impact of various raw materials used in hydrocarbon processing.

Coal gasification and its applications

By David A. Bell, Brain F. Towler and Maohong Fan
£95.00
ISBN 9780815520498
December 2010, 416 pages, hardback

IChemE member discount: 15%

Approaches coal gasification and related technologies from a process engineering point of view, with topics chosen to aid the process engineer who is interested in a complete, coal-to-products system. It provides a perspective for engineers and scientists who analyse and improve components of coal conversion processes.

Membrane technology, a practical guide to membrane technology and applications in food and bioprocessing

By Z F Cui and H S Muralidhara
£110.00
ISBN 978 1 85617 632 3
July 2010, 312 pages, hardback

IChemE member discount: 15%

Covers the latest technologies and applications, with contributions from leading figures in the field. Throughout, the emphasis is on delivering solutions to practitioners and has real world case studies and data from leading organisations.

Ludwig's applied process design for chemical and petrochemical plants, 4th edition

By A Kayode Coker
£135.00
ISBN 978 0 75068 366 1
June 2010, 800 pages, hardback

IChemE member discount: 15%

Provides a comprehensive design manual, data and charts covering distillation and packed towers, including new material on process performance, fractioning, dehydration and new distillation types.

Plant and process engineering 360

By Mike Tooley
£79.00
ISBN 978 1 85617 840 2
January 2010, 612 pages, hardback

IChemE member discount: 15%

Focuses on providing a broad introduction to key systems, making it the first point of reference for engineers who are involved with designing, specifying, maintaining or working with plant, process and control technologies in many sectors.

Computational techniques for multiphase flow

By Guan Heng Yeoh and Jiyuan Tu
£79.00
ISBN 978 0 08 046733 7
2009, 664 pages, hardback

IChemE member discount: 15%

Helps the reader understand the basis, techniques and applications of computational fluid dynamics in multi-phase flow, how and when to use it, and how to interpret the results and apply them to improving applications.

Chemical process equipment, 3rd edition

By J R Couper
£115.00
ISBN 978 0 12 372506 6
September 2009, 830 pages, hardback

IChemE member discount: 15%

This highly influential book, updated and revised, is a powerful resource for chemical, process, or plant engineers executing plans for a successful and profitable facility.

The safety relief valve handbook

By Marc Hellemans
£64.00
ISBN 978 1 85617 712 2
August 2010, 309 pages, hardback

IChemE member discount: 15%

A reference for design, process, instrumentation, plant and maintenance engineers who work with fluid flow and transportation systems.

What went wrong? 5th edition

By Trevor Kletz
56.99
ISBN 978 1 85617 531 9
July 2009, 704 pages, hardback

IChemE member discount: 15%

This title has revolutionised the way industry views safety. The new edition continues and extends the wisdom, innovations and strategies of previous editions.

Atomic force microscopy in process engineering

By R Bowen and N Hilal
£95.00
ISBN 978 1 85617 517 3
July 2009, 352 pages, hardback

IChemE member discount: 15%

This is the first book to bring together both the basic theory and proven process engineering practice of atomic force microscopy, and to present them in a way that is accessible and valuable to practising engineers and those who are improving their atomic force microscopy skills and knowledge.

Purification of laboratory chemicals

By WLF Armarego and Christina Chai
£82.00
ISBN 978 1 85617 567 8
June 2009, 760 pages, softback

IChemE member discount: 15%

Provides expanded coverage of the latest chemical products and processing techniques, safety and hazards. The book has been reorganised and is now fully indexed by CAS Registry Numbers.

IChemE and Elsevier/ Butterworth Heinemann

Chemical engineering design, 5th edition

By R K Sinnott and G Towler
£56.99
ISBN 978 0 7506 8551 1
May 2009, 1052 pages, softback

IChemE member discount: 15%

One of the best-known and most widely-adopted texts available for students of chemical engineering, this title completely covers the standard chemical engineering final year design course, and is widely used as a graduate text.

Industrial and process furnaces, principles, design and operation

By Barrie Jenkins and Peter Mullinger
£83.00
ISBN 978 0 7506 8692 1
2008, 544 pages, hardback

IChemE member discount: 15%

Provides a comprehensive reference to all aspects of furnace operation and design, with coverage of key topics that plant and process engineers and operators need to understand, including the combustion process and its control, furnace fuels, efficiency, burner design and selection, aerodynamics, heat release profiles, furnace atmosphere, safety and emissions.

Non-Newtonian flow and applied rheology

By Raj Chhaba and Jack Richardson
£83.00
ISBN 978 0 7506 8532 0
2008, 536 pages, hardback

IChemE member discount: 15%

An established and important reference for mechanical, chemical and process engineers, who need to study or work with these fluids.

Process intensification: for efficiency, sustainability and flexibility

By David Reay, Colin Ramshaw and Adam Harvey
£83.00
ISBN 978 0 7506 8941 0
2008, 352 pages, hardback

IChemE member discount: 15%

A practical working guide to understanding process intensification (PI) and developing successful solutions and applications.

Project management toolkit (four volume set)

By Trish Melton
£100.00
ISBN 978 0 7506 8516 0
2008, 1132 pages, softback

IChemE member discount: 15%

Contains four project management titles: * *Project management toolkit: the basics for project success*; *Real project planning: developing a project delivery strategy*; *Project benefits management: linking projects to the business*; and *Managing project delivery: maintaining control and achieving success*. * Each title can be purchased separately

Major accidents to the environment

By Ivan Vince
£63.99
ISBN 978 0 7506 8389 0
2007, 352 pages, hardback

IChemE member discount: 15%

Guides readers through the scientific, engineering, technical and legal complexities and requirements of the Seveso II/COMAH Directive, and will be a truly valuable cost-saving compliance tool for many organisations.

Pinch analysis and process integration, 2nd edition

By Ian Kemp
£49.99
ISBN 978 0 7506 8260 2
2006, 416 pages, hardback

IChemE member discount: 15%
Suitable for students

Shows engineers how to understand and optimise energy use in their processes, whether large or small.

Solid/liquid separation: equipment selection and process design

By Steve Tarleton and Richard Wakeman
£170.00
ISBN 978 1 85617 421 3
2006, 464 pages, hardback

IChemE member discount: 15%

A comprehensive book designed to be used frequently and referred to regularly in order to achieve better industrial separations.

BP process safety series and animations

Produced by BP and IChemE, the *BP process safety series* demonstrates both organisations' ongoing commitment to process safety and best practice in the workplace, through the dissemination of lessons learned from recurring incidents. This easy-to-use series is intended to help the reader better understand safe operating practices and procedures.

Complete set of BP titles and slide rules

ISBN 978 0 85295 521 5

IChemE member discount: 15%

Save 10% off the full price by ordering the complete BP set which includes all the titles available at the time of purchase. New titles will be added to the set upon publication. To confirm which titles are currently included visit www.icheme.org/shop

BP animations

BP has developed a range of safety animations to promote the learning of lessons through past incidents and encourage the sharing of experience. Focusing on a single incident or accident, the animations are based on publicly available reports and follow the timeline of events from causes through the effects, concluding with lessons that can be learnt and sources of other information. The animations complement and can be used in conjunction with the BP books for training purposes.

Individual purchases and licences for training purposes are available. Discounts apply for customers purchasing more than one animation.

Visit www.icheme.org/bpanimations for more details.

Safe furnace and boiler firing, 2012 edition

£22.00

ISBN 9780852955567

February 2012, 89 pages, softback

Helps the reader understand the basic principles for safe use of furnace and boilers in plants, and what can occur if these principles are not followed. With sections dedicated to how fired heaters work, explosions, fuel systems, burners and furnace lighting and shutdown, the guide concludes with a test paper. The 2012 edition includes new material and case studies related to maintenance, burner management systems and shutdowns. An ideal introductory text for students, this title is also an excellent reference and training tool for more experienced workers.

Control of work, 2007 edition

£22.00

ISBN 978 0 85295 514 7

2007, 88 pages, softback

IChemE member discount: 15%

Updated with recent case studies, it proposes a formal approach to managing work-related risks through a control of work standard – a procedural form of control, consisting of 12 elements. The standard, developed by BP, covers construction, maintenance, demolition, remediation and other aspects of safety control, reducing the risks workers in the oil and chemical industries are exposed to, as well as serving to decrease the potential harm to third parties.

Complements the Piper Alpha animation.

Control of work, 2009, German edition

£22.00

ISBN 978 0 85295 535 2

May 2009, 88 pages, softback

IChemE member discount: 15%

Control of work proposes a formal approach to managing work-related risks through a control of work standard. The standard, developed by BP, covers construction, maintenance, demolition, remediation and other aspects of safety control, reducing the risks workers in the oil and chemical industries are exposed to, as well as serving to decrease the potential harm to third parties. The guide explains the 12 steps in detail and comes complete with user-friendly instructions, clear illustrations and examples of previous incidents.

Complements the Piper Alpha animation.

Control of work, 2008, English/Mandarin edition

£22.00

ISBN 978 0 85295 529 1

2008, 88 pages, softback

IChemE member discount: 15%

Published paragraph by paragraph in English and Mandarin.

Hazards of nitrogen and catalyst handling, 2009 edition

£20.00

ISBN 978 0 85295 540 6

2009, 62 pages, softback

IChemE member discount: 15%

This third edition includes new case materials, a new section on *Hazards of contaminated nitrogen* and a bibliography. It is an essential tool to increase the awareness of operators within the chemical and process industries to the hazards of nitrogen and potential hazards of using catalysts.

BP process safety series and animations

Hazards of trapped pressure and vacuum, 2009 edition

£30.00
ISBN 978 0 85295 541 3
2009, 95 pages, softback

ICHEME member discount: 15%
Suitable for students

This subject may seem quite simple to the experienced operator, yet every year we see incidents relating to over pressurisation or vacuuming of equipment. This book increases the awareness of operators on chemical and process plants to the hazards of trapped pressure and vacuum. The second edition includes new case materials and a new section on rupture disks plus it has a revised bibliography. This is another excellent text for students, and an ideal training and reference tool for more experienced staff.

Safe ups and downs for process units, 2009 edition

£20.00
ISBN 978 0 85295 534 5
May 2009, 69 pages, softback

ICHEME member discount: 15%

Using case studies of actual accidents to highlight potential threats and explain possible causes before giving potential safeguards, this title raises operators' knowledge and awareness of the dangers involved with the start-up and shutdown of process units, enabling them to spot hazards before accidents occur. This new edition has been updated with additional case studies.

Complements the Grangemouth hydrocracker explosion and Milford Haven animations.

Safe ups and downs for process units, 2008, English/Mandarin edition

£17.00
ISBN 978 0 85295 530 7
2008, 70 pages, softback

ICHEME member discount: 15%

Published paragraph by paragraph in English and Mandarin.

Hazards of oil refining distillation units, 2008 edition

£27.00
ISBN 978 0 85295 522 2
2008, 100 pages, softback

ICHEME member discount: 15%

This title aims to help the reader better understand the 'why' of safe operating practices and procedures in CDUs and VDUs in particular. Contents include: a summary of main hazards, when incidents occur, chemical hazards, physical hazards, hazards relating to equipment failure, safe operating practices and procedures, serious incidents that have occurred on CDU/VDUs, and a self-test questionnaire.

Liquid hydrocarbon tank fires, 2008 edition

£27.00
ISBN 978 0 85295 528 4
2008, 100 pages, softback

ICHEME member discount: 15%
Suitable for students
Slide rules available for use with this title

Hydrocarbon tank fires have proved to be very demanding emergencies due to their size and duration. This latest edition has been expanded to incorporate findings from past incidents with a new appendix *Learning from past accidents*. It is intended for those operators, engineers and firefighters working on or near tank farms so that they are aware of the potential emergencies and their consequences and are able to adopt safe designs and practices to minimise the occurrence of such incidents.

Safe tank farms and (un)loading operations, 2008 edition

£32.00
ISBN 978 0 85295 531 4
2008, 180 pages, softback

ICHEME member discount: 15%

Updated with details of recent incidents, *Safe tank farms and (un)loading operations* aims to make operators, engineers and technicians working on tank farms and (un)loading plants aware of the possibility of common failures and their consequences, to help them avoid the occurrence of such incidents. The guide has sections dedicated to atmospheric storage tanks, important design issues, sources of ignition, loading and unloading of road and rail tankers, loading and unloading of ships, tank level measurement and overflow protection, and tank inspection and maintenance.

Slide rules – for estimation of foam application rates

Slide rules for use in conjunction with the *BP process safety series: Liquid hydrocarbon tank fires – prevention and response, appendix 7: fire fighting equipment*.

No IChemE member discount

Slide rule 1 enables you to estimate the application flow, and foam and water quantities required for:

- a full surface tank fire using mobile firefighting equipment
- a full surface tank fire using fixed firefighting equipment.

Both of these estimations are based on inputting the tank diameter.

Order ref: SLIDE1
£5.00 + VAT

Slide rule 2 enables you to estimate the application flow, and foam and water quantities required for:

- a rim seal fire using fixed firefighting equipment, based on the tank diameter
- a bund (dike) fire, based on the spill surface or bund surface on fire.

Order ref: SLIDE2
£5.00 + VAT

Valuable for tank designers, industrial firefighters and fire brigade officers to enable them to make quick and easy calculations. Detailing 1%, 3% and 6% foam concentrates, they cover both metric (SI) and imperial units (US).

LNG fire protection and emergency response, 2007 edition

£32.00
ISBN 978 0 85295 515 4
2007, 146 pages, softback

IChemE member discount: 15%

Provides an overall understanding of the potential emergency situations that may arise at facilities and how to deal with these incidents, as well as general LNG safety issues. The book helps to understand the nature and hazards of LNG, and the special fire hazard management and emergency response measures required for such facilities.

Safe handling of light ends, 2007 edition

£27.00
ISBN 978 0 85295 516 1
2007, 96 pages, softback

IChemE member discount: 15%

Raises the awareness of operators, engineers and technicians of the main hazards of light ends (methane to pentane), using examples of actual accidents, enabling operators to spot and rectify potential hazards before incidents occur, including a test section.

Complements the Feyzin animation.

Hazards of electricity and static electricity, 2006 edition

£25.00
ISBN 978 0 85295 503 1
2006, 104 pages, softback

IChemE member discount: 15%

Is intended to raise awareness of how static electricity can be unexpectedly generated or electricity misused, to help operators, engineers and technicians to adopt safe designs and practices and thus avoid the occurrences of such incidents. It includes a section on arc flash and blast hazards and two new incident descriptions covering storage tank filling hazards and lightning hazards.

Confined space entry, 2005 edition

£22.00
ISBN 978 0 85295 479 9
2005, 90 pages, softback

IChemE member discount: 15%
Suitable for students

Often described as one of the most hazardous activities to be performed in an industrial environment, this book raises awareness of the main hazards, using examples of actual accidents to highlight the potential threats and explain the possible causes, enabling operators to spot potential hazards and adopt safer designs and practices to avoid the occurrence of such incidents.



BP process safety series and animations

Hazardous substances in refineries, 2005 edition

£22.00
ISBN 978 0 85295 482 9
2005, 92 pages, softback

IChemE member discount: 15%

Hazardous substances are handled routinely in refineries, yet contact with these can prove fatal in a matter of seconds. Designed to help share knowledge and improve the basic principles for the safe handling of the main hazardous chemical products found in refineries. The guide highlights and discusses over 15 hazardous products.

Hotel fire safety, 2005 edition

£17.00
ISBN 978 0 85295 480 5
2005, 52 pages, softback

IChemE member discount: 15%
Suitable for the general public

Hotel fire safety is full of tips and advice, designed to ensure safety when travelling. Recommended reading for frequent travellers and those with the responsibility of organising the travel arrangements of others, this title is quickly becoming essential reading for hoteliers across the globe.

Safe furnace and boiler firing, 2005 edition

£22.00
ISBN 978 0 85295 472 0
2005, 80 pages, softback

IChemE member discount: 15%
Suitable for students

Safe furnace and boiler firing helps the reader understand the basic principles for safe use of furnace and boilers in plants, and what can occur if these principles are not followed. With sections dedicated to how fired heaters work, explosions, fuel systems, burners and furnace lighting and shutdown, the guide concludes with a test paper. An ideal introductory text for students, this title is also an excellent reference and training tool for more experienced workers.

Hazards of air and oxygen, 2004 edition

£17.00
ISBN 978 0 85295 467 6
2004, 59 pages, softback

IChemE member discount: 15%
Suitable for students

This book sets out to increase the awareness of the hazards of air and oxygen to operators within the chemical and process industries. Discussing the uses of air and oxygen and by using examples of actual accidents in industry, *Hazards of air and oxygen* helps the reader identify dangers in their own workplace and raise awareness of potential problems. An ideal reference tool or training aid and an excellent introduction to the subject for students.

Hazards of steam, 2004 edition

£17.00
ISBN 978 0 85295 468 3
2004, 39 pages, softback

IChemE member discount: 15%

Highlights incidents and helps the reader recognise how similar threats could occur in their working environment. Relevant not only to those in the chemical and oil industries, but also those involved in the maintenance, design and construction of facilities.

Hazards of water, 2004 edition

£17.00
ISBN 978 0 85295 466 9
2004, 60 pages, softback

IChemE member discount: 15%
Suitable for students

Uses real-life case studies to highlight the potential threats and dangers, explaining the possible causes of such incidents, and enabling operators to spot and rectify potential hazards before accidents occur.

Forms of contract

IChemE has published *Forms of contract* for over 40 years, drafted to meet the particular needs of contracts for the design and construction of a process plant or other performance plant. There are now two sets of contract forms available: forms for use in the UK and forms for international use. The forms have been written to reflect best practice in project delivery in the process industries and promote fairness and teamwork in project execution.

Process plants are judged by their performance in operation, and process plant contracts must therefore also be performance-based. This is the underlying philosophy of IChemE's *Forms of contract* suite, and what sets them apart from other contract forms used in the construction industry. They are the only series of readily available contract forms which specifically address the liabilities and testing regimes appropriate to a performance plant, with extensive performance testing provided for at every critical stage.

International forms of contract

The IChemE contracts were originally drafted to operate under English law. Their growing international use has led to the preparation of a further suite of contract forms written for international use under a wide range of legal systems.

Contracts committee

The *Forms of contract* suite is produced by a committee of senior level individuals with many years' experience in all areas of the international process industries, including operations and management, contracting, consultancy and construction law.

Key features

The *Forms of contract* suite is produced by a committee of senior level individuals with many years' experience in project management and contract law, from areas including the legal profession, contracting, process operating and consultancy, who are involved in the design, construction, ownership and operation of process plants in the UK and internationally.

Contracts

All the contracts are internally consistent and contain a model form of Agreement and General Conditions, together with extensive guide notes to assist the user in preparing a contract. Key features include.

- multi disciplinary
- technology based (purchaser's, contractor's or licensor's technology)
- close integration between design and construction
- project success measured by extensive performance testing

Form of contract: lump sum contracts – the Red Book, 5th edition (UK version)

£45.00
ISBN 978 0 85295 542 0
November 2012
97 pages (est), softback

International form of contract: lump sum contracts – the International Red Book

£55.00
ISBN 978 0 85295 510 9
2007, 112 pages, softback

No IChemE member discount

Suitable for use in lump sum contracts in a wide range of

industries, particularly those where a high technical input is required in design and construction and where a proven system or service is required for the completed project.

The UK 5th edition has been revised to reflect current thinking on best project management practice; realigned clauses throughout the series ensures consistency; insurance and performance testing clauses have undergone detailed review and updating.

Form of contract: reimbursable contracts – the Green Book, 4th edition (UK version)

£45.00
ISBN 978 0 85295 543 7
November 2012
100 pages (est), softback

International form of contract: reimbursable contracts – the International Green Book

£55.00
ISBN 978 0 85295 511 6
2007, 116 pages, softback

No IChemE member discount

Based on the philosophy of co-operation between parties to achieve the mutual objective of a successful project, the *Green Book* aims to enable the user to put together a reimbursable contract to suit most needs, incorporating the particular cost and payment elements of a reimbursable contract.

The UK 4th edition has been revised to bring it in line with recent UK legislation and to reflect current thinking on best project management practice; realigned clauses throughout the series ensures consistency; insurance and performance testing clauses have undergone detailed review and updating.



Form of contract: target cost contracts – the Burgundy Book 2nd edition (UK version)

£45.00
ISBN 978 0 85295 544 4
November 2012
109 pages (est), softback

International form of contract: target cost contracts – the International Burgundy Book

£55.00
ISBN 978 0 85295 512 3
2007, 122 pages, softback

No IChemE member discount

The intention of a target cost contract is to encourage both parties in the contract to work together in order to find ways of carrying out the work as efficiently as possible and to be rewarded as a result (i.e. pain/gain share). The contracts set out a procedure for arriving at a target cost that is sufficiently detailed to be used as the basis for effective control.

The latest edition has been revised to bring it in line with recent UK legislation and to reflect current thinking on best project management practice; realigned clauses throughout the series ensures consistency; insurance and performance testing clauses have undergone detailed review and updating.

Form of contract: subcontracts – the Yellow Book, 4th edition (UK version)

£45.00
ISBN 978 0 85295 545 1
November 2012
75 pages (est), softback

International form of contract: subcontracts – the International Yellow Book

£55.00
ISBN 978 085295 513 0
2007, 90 pages, softback

No IChemE member discount

Compatible with the *Red, Green* and *Burgundy Books*, the *Yellow Book* is intended primarily for subcontracts that include the design, supply, site construction, erection and/or installation and testing of equipment, and when the subcontract is to supply equipment that is significant in the main contract plant.

The UK 4th edition has been updated to work fully back-to-back with the new editions of the *Red, Green* and *Burgundy Books*.

Form of contract: minor works – the Orange Book, 2nd edition

£45.00
ISBN 978 0 85295 452 2
2003, 29 pages, softback

No IChemE member discount

The *Orange Book* is invaluable for use with 'minor' packages of work involving an existing process plant. It is applicable where the far more comprehensive forms for lump-sum, reimbursable and target-cost contracts would be too complex and, therefore, inappropriate. The clauses have been amended and brought in line with the current contract books wherever appropriate and with current legislation.

Form of contract: subcontracts for civil engineering works – the Brown Book, 3rd edition

£45.00
ISBN 978 0 85295 546 8
November 2012
66 pages (est), softback

No IChemE member discount

Specifically for civil engineering subcontracts in relation to work that is often required prior to the construction of the process elements of a process plant, such as access roadways, foundations and other 'non-process plant' elements.

Updated to work fully back-to-back with the new editions of the *Red, Green* and *Burgundy Books*.

Forms of contract user guide – the Purple Book, 4th edition

£55.00
ISBN 978 0 85295 451 5
2004, 300 pages, softback

No IChemE member discount

This guide will benefit new and experienced contract users, explaining how the contracts are intended to work, complete with an explanation of each. It introduces the various contract formats, outlining where each should be applied in practice and providing suggestions to begin working with them, as well as addressing topics such as project management and contract strategy, disputes and disputes resolution and liability law, the fourth edition covers the following titles:

- *Red Book 4th edition (2001) – lump sum contracts*
- *Green Book 3rd edition (2002) – reimbursable contracts*
- *Burgundy Book 1st edition (2003) – target cost contracts*
- *Yellow Book 3rd edition (2003) – subcontracts*
- *Brown Book 2nd edition (2004) – subcontracts*
- *Orange Book 2nd edition (2003) – minor works.*

International forms of contract user guide – the International Purple Book

£55.00
ISBN 978 0 85295 517 8
2008, 130 pages, softback

No IChemE member discount

This guide will benefit new and experienced contract users, explaining how the contracts are intended to work, complete with an explanation of each. It covers the 2007 international versions of the *Red, Green, Burgundy* and *Yellow Books*.

Forms of contract

The IChemE contract philosophy is directed towards the avoidance of disputes. However, from time to time, disputes arise which cannot be resolved in the normal course of discussion and negotiation. IChemE's *Forms of contract* put forward several routes for the resolution of disputes. Additionally, the contracts draw the attention of the parties to the use of mediation for the resolution of a dispute.

Forms of contract: rules for dispute review boards – the Beige Book

£20.00
ISBN 978 0 85295 495 9
2005, 16 pages, softback

No IChemE member discount

This guide sets out a series of rules governing the appointment, duties and general actions of the Dispute Review Board (DRB), to provide a framework within which it can operate with confidence. These rules are one of the very few sets in existence governing the establishment and operation of DRBs.

Forms of contract: rules for expert determination – the White Book, 4th edition

£20.00
ISBN 978 0 85295 487 4
2005, 12 pages, softback

No IChemE member discount

The *White Book* provides a set of procedures and rules governing the appointment, duties and actions of the expert. The fourth edition has been fully updated to include the necessary changes to make the rules suitable for international use.

A unique feature of IChemE's contracts

IChemE rules for expert determination and rules for dispute review boards are one of only a few currently available that set out how an expert determination/dispute review board should operate. They are incorporated into the *Forms of contract* suite (NB: DRB for international contracts) and can be used alongside other contracts such as FIDIC.

Forms of contract: adjudication rules – the Grey Book, 3rd edition

£20.00
ISBN 978 0 85295 470 6
2004, 10 pages, softback

No IChemE member discount

This book was initially produced in response to the statutory right to adjudication introduced to construction contracts for work in the UK by the Housing Grants, Construction and Regeneration Act 1996 and in Northern Ireland by the Construction Contracts (Northern Ireland) Order 1997. This procedure aims to resolve disputes quickly, preventing lengthy and costly delays.

Forms of contract: arbitration rules – the Pink Book, 4th edition

£20.00
ISBN 978 0 85295 486 7
2005, 26 pages, softback

No IChemE member discount

Presents arbitration procedures for engineers and arbitrators engaged in disputes. These arbitration rules have been updated to take account of the Arbitration Act 1996 and include changes necessary to make the rules suitable for international use.

Forms of contract – sets – saving up to £100

Set 1: £244.00 *

Red 4th, Green 3rd, Burgundy 1st, Orange 2nd, Yellow 3rd, Brown 2nd, Purple 4th

ISBN 978 0 85295 313 6

Set 2: £284.00 *

Red 4th, Green 3rd, Burgundy 1st, Orange 2nd, Yellow 3rd, Brown 2nd, Purple 4th, Pink 4th, Grey 3rd, White 4th

ISBN 978 0 85295 415 7

Set 3: £252.00 *

International Red 1st, International Green 1st, International Burgundy 1st, International Yellow 1st, International Purple 1st, White 4th, Pink 4th, Beige 1st

ISBN 978 0 85295 518 5

Previous editions of the main and subcontracts forms of contract are still available. Contact sales@icheme.org for details.

* The latest editions will be included in the sets when published.



Copyright

The copyright law exists to protect the intellectual standing and economic livelihood of creators and publishers. All IChemE publications are protected by copyright and are NOT available for duplication. A separate *Form of contract* must be purchased for each new contract entered into and for each party to the contract. Licensed electronic versions are available to assist with preparing multiple contracts.

Preparation made easy with electronic versions

The *Forms of contract* are available under electronic license, at a cost of £500 + VAT each:

- *The International Red Book*
- *The International Green Book*
- *The International Burgundy Book*
- *The International Yellow Book*
- *The Red Book, 4th/5th edition*
- *The Green Book, 3rd/4th edition*
- *The Burgundy Book 1st/2nd edition*
- *The Orange Book, 2nd edition*
- *The Brown Book, 2nd/3rd edition*
- *The Yellow Book, 3rd/4th edition*

Each licensed electronic version, containing a single *Form of contract*, entitles the user to print up to 10 copies without infringing copyright regulations.

Contact sales@icheme.org for full details.

Annual subscriptions

The *Forms of contract* are also sold via annual subscriptions, entitling the user to unlimited use of the contracts. The *International Red, International Green, International Burgundy, International Yellow*, and the *Red, Green, Burgundy, Yellow, Orange and Brown Books* are all available on annual subscription, at a cost of £2500.00 + VAT per annum each.

Purchasers of more than one contract are entitled to considerable discounts:

2 contracts: £4000 + VAT (saving 20%)

3 contracts: £5625 + VAT (saving 25%)

4 contracts: £7000 + VAT (saving 30%)

5 contracts: £8125 + VAT (saving 35%)

6 contracts: £9000 + VAT (saving 40%)

* The latest editions will be included when published.

Training - courses

What every engineer should know about contracts

A two-day course which explains, in simple terms, what engineering contracts are all about. Suitable for engineers of all disciplines, it provides an overview of the law of contract and of tort within which engineering and construction projects are made and operate, as well as explaining why the standard published forms of contract say what they say.

Visit www.icheme.org/contracts for full details.

IChemE forms of contract

A two-day course which provides a detailed examination of the suites of IChemE contract forms available for use in the UK and internationally: their approach to risk and payment, their structure, party liabilities, and how they govern work from initial requirements through design to fully commissioned and operational plant.

Visit www.icheme.org/foccourse for full details.

Training - in-company

These courses, or variations of them, can also be run in-house anywhere in the world. Course content can be adapted to suit your particular objectives, ranging from a broad introduction to the type of contracts available, to a detailed examination of the conditions relating to a particular contract or project.

Contact the courses department for a quote or to discuss your requirements:

Email: courses@icheme.org
Tel: +44 (0) 1788 534431

Safety training

People, like any other asset, need continual maintenance and support to ensure the development of both the individual and the company. It can, however, be difficult to find the resources to send employees on courses, or indeed find courses that suit your particular needs, which is where IChemE can help.

Inherently safer process design (CD-ROM)

£285.00 + VAT
Order ref: STP001

CD-ROM includes training notes, 150 illustrated slides, video and a variety of case studies on best practice.

Inherently safer process design provides all the necessary training to ensure the principles of inherent safety can be understood and applied. Drawing on the knowledge of experienced safety pioneers, this training programme identifies the lessons to learn from their experiences to make working processes safer.

Fires and explosions (CD-ROM)

£185.00 + VAT
Order ref: STP002

CD-ROM includes training notes, 90 illustrated slides and a variety of recent case studies.

Fires and explosions teaches the user how to spot and treat hazards which could lead to far more serious incidents, discussing in detail the extra risks which can arise when working with dangerous chemicals.

Safety management systems (CD-ROM)

£195.00 + VAT
Order ref: STP003

CD-ROM includes training notes, 140 illustrated slides and recent case studies on best practice.

Safety management systems teaches the principles of designing an effective safety management system, involving the user in how to make an existing management system operate even more effectively. Topics include: policy, objectives and targets, organising, planning and implementation, measuring performance, self-assessment and regulation.

Practical risk assessment (CD-ROM)

£95.00 + VAT
Order ref: STP004

CD-ROM includes training notes and PDF student workbook.

Practical risk assessment shows employees how to assess the risks in their everyday tasks, allowing them to identify and minimise the hazards in their working environment, as well as gain an understanding of the consequences of their actions.

Safety courses

Our comprehensive range of quality-assured training courses are aimed at encouraging chemical, biochemical, process and related engineering professionals to focus on their professional development.

Learn the key principles of process safety and its management throughout your organisation from the top down, with our range of safety courses:

- *Fundamentals of process safety (nuclear)*
- *HAZOP - applied hazard and operability study*
- *HAZOP study for the offshore oil & gas industry*
- *HAZOP study for team leaders and team members*
- *HAZOP study, leadership and management*
- *Introduction to process safety*
- *Layer of protection analysis (LOPA)*
- *Process safety and the board*

For the full details and dates visit www.icheme.org/courses

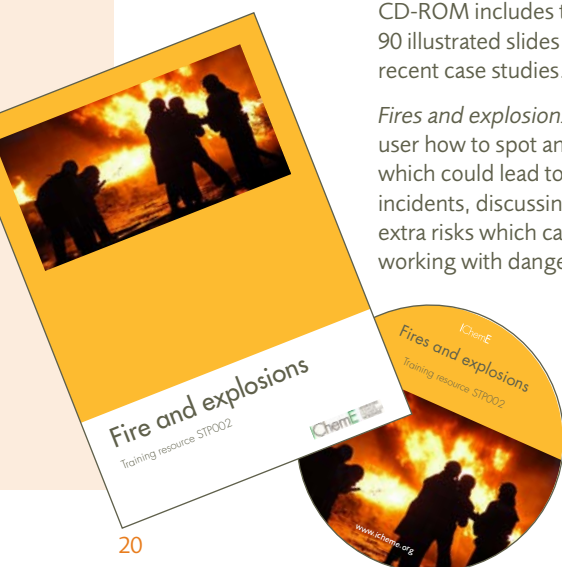
All IChemE courses can be run in-company as an alternative. In-house courses will guarantee the programme addresses your own operational processes, whilst being a more cost-effective option to train five or more employees. Contact courses@icheme.org for a quote

BP animations

BP has developed a range of safety animations to promote the learning of lessons through past incidents and encourage the sharing of experience.

Focusing on a single incident or accident, the animations are based on publicly available reports and follow the timeline of events from causes through effects, concluding with lessons that can be learnt and sources of other information. Each animation can be used to demonstrate a number of different safety themes, making them excellent training tools and useful course aids for a wide range of industries and professionals.

For details of the animations currently available visit www.icheme.org/training



The Trevor Kletz collection

Process plants: a handbook for inherently safer design

By Trevor Kletz and Paul Amyotte
£58.00
ISBN 9781439804551
April 2011, 362 pages, hardback

The second edition demonstrates not just the importance of prevention, but the importance of designing with prevention in mind. It emphasises the role of inherent safety in process safety management systems and in ensuring an appropriate process safety culture. Keeping the easy to understand style, this book clearly delineates practical, everyday issues and complex technical ones.

What went wrong? 5th edition

£56.99
ISBN 978 1 85617 531 9
July 2009, 704 pages, hardback
ICHEM member discount: 15%

This title has revolutionised the way industry views safety. The new edition continues and extends the wisdom, innovations and strategies of previous editions.

An engineer's view of human error, 3rd edition

£45.00
ISBN 978 0 85295 532 1
2001, 281 pages, softback

ICHEM member discount: 15%
Suitable for students

More examples of accidents caused by various types of human error. An ideal text for practising engineers and students, the title suggests new ways of looking at accidents which, at first sight, seem to be the result of human error.

By accident... a life preventing them in industry

£10.00
ISBN 978 0 95384 400 5
2000, 144 pages, softback

ICHEM member discount: 15%

Trevor Kletz is widely recognised as an outstanding communicator on safety in the process industries. His books, articles and presentations have taken his fame around the world. In this book he tells – in his inimitable prose – how this happened, and what challenges a young scientist or engineer starting out in industry might expect to find.

HAZOP and HAZAN, 4th edition

£45.00
ISBN 978 0 85295 506 2
1999, 232 pages, softback

ICHEM member discount: 15%
Suitable for students

Substantially revised and updated, this classic introduction, now accepted as a standard text on the subject, provides essential reading for everyone who needs to know about process safety.

Computer control and human error

By Trevor Kletz, Paul Chung, Eamon Broomfield and Chaim Shen-Oor
£30.00
ISBN 978 0 85295 362 4
1995, 120 pages, hardback

ICHEM member discount: 15%

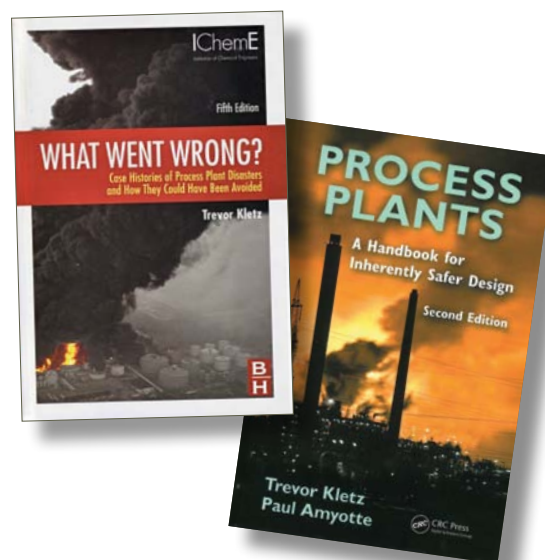
This title examines some of the unforeseen incidents which have occurred in computer-controlled process plants and suggests how such incidents can be made less likely.

Lessons from disaster – how organisations have no memory and accidents recur

£32.00
ISBN 978 0 85295 307 5
1993, 183 pages, hardback

ICHEM member discount: 15%

Looking at accidents that have occurred previously, this title discusses the apparent inability of organisations to learn and retain the lessons long term.



Safety and loss prevention

Using risk graphs for Safety Integrity Level (SIL) assessment - a user-guide for chemical engineers

By Clive De Salis
£25.00
ISBN 9780852955543
April 2011, 48 pages, A4 softback,

Explains to readers how to design and calibrate a risk graph and how to understand some of the advantages and disadvantages of using risk graphs. The guide was peer-reviewed by the IChemE Safety and Loss Prevention Special Interest Group.

Hazards XXII: process safety and environmental protection

CD-ROM
£140.00 + VAT
ISBN 9780852955475
Symposium series 156
April 2011

Contains 100 presentations from the April 2011 conference of the long-established *Hazards* series.

The Hazards symposium series focuses on making the best use of current safety knowledge and avoiding complacency in the chemical and process industries, applying knowledge to emerging industries, and ensuring lessons learned in the old industries are transferred to the new so that the same mistakes are not made again.

Hazards XXI: process safety and environmental protection in a changing world

CD-ROM
£130.00
ISBN 978 0 85295 536 9
Symposium series 155
November 2009

IChemE member discount: 15%

Contains 106 papers presented at the 2009 conference in the long-established *Hazards* series.

Hazards XX: process safety and environmental protection, harnessing knowledge, challenging complacency (with CD-ROM)

£130.00 + VAT
ISBN 978 0 85295 523 9
Symposium series 154
2008, 1160 pages, hardback

IChemE member discount: 15%

Contains 91 papers presented at the 2008 conference in the long-established *Hazards* series.

HAZOP: guide to best practice, 2nd edition

By Brian Tyler, Frank Crawley and Malcolm Preston
Prepared by the European Process Safety Centre (EPSC)
£40.00
ISBN 978 0 85295 525 3
2008, 141 pages, softback

IChemE member discount: 15%
Suitable for students

The second edition of this bestselling title has been brought completely up to date. HAZOP is a technique developed specifically for use in the chemical and process industries, and is a detailed method for systematic examination of a well-defined processor operation, either planned or existing. This guide describes and illustrates the HAZOP study method, highlighting a variety of proven uses and approaches.

Loss prevention and safety performance in the process industries symposium 2007

CD-ROM
£130.00 + VAT
ISBN 978 0 85295 508 6
Symposium series 153
2007

IChemE member discount: 15%

Proceedings from the 12th international symposium held in Edinburgh, Scotland, in May 2007. The main theme is 'translating knowledge into practice'. Topic areas include: risk assessment and control; human factors and safety management systems; learning from accidents and knowledge transfer; inherent safety; chemical reactivity; and designing for safety.

Hazards XIX: process safety and environmental protection – what do we know? where are we going? (with CD-ROM)

£110.00 + VAT on CD-ROM
ISBN 978 0 85295 492 8
Symposium series 151
2006, 1024 pages, hardback

IChemE member discount: 15%

Hazards XIX contains the papers presented at the 2006 symposium.

For previous titles in the *Hazards* series visit www.icheme.org/shop

Explosion protection: practical understanding of recent standards and new legislation in process safety

Prepared by the European Process Safety Centre (EPSC)
£40.00
ISBN 978 0 85295 456 0
2003, 96 pages, softback

IChemE member discount: 15%

These proceedings illustrate the current challenges facing the process safety professional in Europe when implementing standards and legal requirements in the area of explosion protection.

Hazard identification methods

By Frank Crawley and Brian Tyler
Prepared by the European Process Safety Centre (EPSC)
£45.00
ISBN 978 0 85295 457 7
2003, 98 pages, softback

IChemE member discount: 15%

This book will assist the manager or safety specialist to decide on the most appropriate techniques for hazard identification. Based on the experiences of EPSC members and the two authors, it provides an overview of hazard identification techniques currently used in the process industry, their strengths and limitations.

Containment systems: a design guide

Edited by Nigel Hurst, Mike Brocklebank and Martyn Ryder
£60.00
ISBN 978 0 85295 407 2
2002, 199 pages, hardback

IChemE member discount: 15%

Covering the many types of containment systems available and the issues which must be considered when selecting a particular system for a specific duty, this title encompasses material properties, legal requirements, validation, and operational and maintenance needs.

Dust explosion prevention and protection: a practical guide

Edited by John Barton
£90.00
ISBN 978 0 85295 410 2
2001, 352 pages, hardback

IChemE member discount: 15%

This definitive guide is a combination and revision of IChemE's three well-known practical texts on aspects of dust explosions. Covering a comprehensive range of topics including dust ignitability, flammability and explosibility characteristics, the guide also incorporates new research and information, particularly in relation to containment and venting of dust explosion.

Fundamentals of process safety

By Vic Marshall and Steve Ruhemann
£29.50
ISBN 978 0 85295 431 7
2001, 298 pages, softback

IChemE member discount: 15%
Suitable for students

Primarily aimed at students to prepare them for future responsibilities in industrial life, this book presents the fundamentals of process safety in such a form that students will fully understand and absorb the subject. It also serves as an introductory text to graduates who have had little or no formal training in process safety.

Process vessels subject to explosion risk: design guidelines for the pressure rating of weak process vessels subject to explosion risk

Edited by Stan Pilkington on behalf of the British Materials Handling Board (BMHB)
£25.00
ISBN 978 0 85295 428 7
2000, 76 pages, softback

No IChemE member discount

This guide helps engineers to calculate the strength of weak vessels, enabling explosion venting and suppression systems to have a more consistent foundation and removing many of the difficulties associated with lack of knowledge of vessel strength.

Safety integrity: the implications of IEC 61508 and other standards for the process industries

Prepared by the European Process Safety Centre (EPSC)
£40.00
ISBN 978 0 85295 412 6
2000, 109 pages, softback

IChemE member discount: 15%

This title highlights how major companies are assuring safety integrity in safety-critical systems in their process plants.

Safety issues in a dynamic business environment

Prepared by the European Process Safety Centre (EPSC)
£35.00
ISBN 978 0 85295 439 3
2000, 73 pages, softback

IChemE member discount: 15%

Shows how senior managers from leading process industries ensure that their experience and expertise in the reorganisations, mergers, de-mergers, plant and facility movements are shared.

SHE management systems for small to medium-sized enterprises

By Anders Jacobsson
Prepared by the European Process Safety Centre (EPSC)
£45.00
ISBN 978 0 85295 433 1
2000, 118 pages, softback

IChemE member discount: 15%

This guide offers an outline in achieving an integrated safety, health and environmental management system, assisting the small to medium-sized enterprise to develop its own SHE management system.

Chemical reaction hazards: a guide to safety, 2nd edition

Edited by John Barton and Richard Rogers
£45.00
ISBN 978 0 85295 464 5
1997, 225 pages, softback

IChemE member discount: 15%
Suitable for students

With 100 case studies added to the original text, this second edition encourages the reader to assess potential hazards of a process before designing the plant and provides a basis for the identification and evaluation of chemical reaction hazards. Ideal for practising chemists, engineers, plant personnel and students.

Safety and loss prevention

Major hazards and their management

By Geoff Wells
£65.00
ISBN 978 0 85295 368 6
1997, 305 pages, hardback

IChemE member discount: 15%

This text discusses the development of major hazards, such as fires, explosions or toxic releases. Allowing the reader to tackle tasks including better plant design and identifying and reducing the risk of hazardous incidents, this is a companion text to *Hazard identification and risk assessment*.

Process safety analysis: an introduction

By Bob Skelton
£26.00
ISBN 978 0 85295 378 5
1997, 213 pages, softback

IChemE member discount: 15%
Suitable for students

Suitable for undergraduates and all engineers involved in safety, this book shows the reader how safety assurance is performed by industry. The techniques described are relevant to the public and local authorities, as well as those concerned with the safety of process and related industries.

Hazard identification and risk assessment

By Geoff Wells
£75.00
ISBN 978 0 85295 463 8
1996, 302 pages, softback

IChemE member discount: 15%

This guide offers practical advice on the principles of HAZOP and HAZAN, as well as other hazard identification methods, guiding the reader through their use in a simple step-by-step way. Recommended reading for anybody new to hazard identification and a handy reference for the more experienced user.

Safety performance measurement

Prepared by the European Process Safety Centre (EPSC)
£3.00
ISBN 978 0 85295 382 2
1996, 135 pages, hardback

IChemE member discount: 15%

A collection of practical examples, demonstrating how a variety of multinational companies measure the effectiveness of safety management systems. Each case reflects the specific needs and characteristics of the individual company.

Developing effective safety systems

By Ian G Wallace
£33.00
ISBN 978 0 85295 358 7
1995, 165 pages, hardback

IChemE member discount: 15%

This book is based on the author's 30 years of experience in industry, providing guidance on developing safety systems and policies and procedures.



Project management/process plant design and operation

Capital cost estimating, 4th edition

By Mark Gerrard
£26.00
ISBN 978 0 85295 399 0
2000, 115 pages, softback

IChemE member discount: 15%
Suitable for students

Endorsed by The Association of Cost Engineers, and also known as 'The Blue Book', the guide aids student engineers in the design activities undertaken during their course and helps young engineers in industry compile their own set of cost data.

Strategies for effective maintenance: a guide for process criticality assessment and maintenance schedule setting using a qualitative approach

By Mike Briggs and Chris Atkinson
£40.00
ISBN 978 0 85295 435 5
2000, 70 pages, softback

IChemE member discount: 15%

Based on a survey to help managers seeking to secure the benefits of a systematic approach to maintenance, this guide enables organisations to determine how their maintenance can be made more effective and sets out the principles of qualitative approach, giving examples of how it can be used in practice. Tables and flow diagrams are included for use during training sessions and by assessment teams.

Benchmarking in the process industries

By Munir Ahmad and Roger Benson
£30.00
ISBN 978 0 85295 411 9
1999, 154 pages, hardback

IChemE member discount: 15%
Suitable for students

Aimed at introducing the subject of benchmarking to the process industries, based on practical experience of over 200 process plants, the book gives guidance on how to benchmark, where to find the benchmarks and how to quantify the gaps identified.

Fluid mechanics: worked examples for engineers

By Carl Schaschke
£35.00
ISBN 978 0 85295 498 0
1998, 300 pages, hardback

IChemE member discount: 15%
Suitable for students

A collection of problems in fundamental fluid mechanics with accompanying solutions, aimed at supporting undergraduates and tutors in design projects. The book illustrates the application of theory in fluid mechanics and enables students new to the science to grasp fundamental concepts.

Process industry economics: an international perspective

By David J Brennan
£40.00
ISBN 978 0 85295 461 4
1998, 290 pages, softback

IChemE member discount: 15%
Suitable for students

An excellent base for understanding the process industries and in particular what lies behind economic evaluation and decision-making, with a rich source of data on material costs.

Process plant commissioning, 2nd edition

By David Horsley
£39.50
ISBN 978 0 85295 398 3
1998, 115 pages, softback

IChemE member discount: 15%

This handbook is ideal for the non-specialist, providing advice and guidance on how to set about the problem of commissioning a new plant or a modification to an existing plant. The title also addresses possible problems during commissioning.

Relief systems handbook

By Cyril F Parry
£33.00
ISBN 978 0 85295 471 3
1992, 205 pages, softback

IChemE member discount: 15%
Suitable for students

This practical guide fills a gap in the literature on pressure relief design, operation and maintenance, covering the applicability to and reliability of different pressure relief devices in individual situations.



General

Salary survey 2012 (UK and Ireland)

£180.00
ISBN 978 0 85295 560 4

Salary survey 2012 (Australia)

ISBN 978 0 85295 561 1

No IChemE member discount

The *Salary surveys* contain current data and analysis of the pay and benefits of professional chemical engineers at all levels. The surveys are 'must have' tools for all HR departments, whether recruiting new staff for the process industries or for use in benchmarking salaries of the current workforce.

A biofuels compendium

£20.00
ISBN 978 0 85295 533 8
2009, 40 pages, softback

IChemE member discount: 15%

The Biofuels compendium has attempted to set out policy and scientific information from reliable sources and to assist in navigating around this most complex of subjects and to provide a mini reference at the same time.

Communication skills for engineers and scientists, 4th edition

£12.50
ISBN 978 0 85295 520 8
2007, 80 pages, softback spiral bound

IChemE member discount: 15%
Suitable for students

Communication skills are vital in engineering and science. This book will help you to get your message across, effectively and efficiently. The new edition is truly international with UK terminology removed and the section on communication technology brought right up to date.

Hotel fire safety, 2005 edition BP process safety series

£17.00
ISBN 978 0 85295 480 5
2005, 52 pages, softback

IChemE member discount: 15%
Suitable for the general public

With over 6000 hotel fires across the EU alone each year, *Hotel fire safety* is full of tips and advice, designed to ensure safety when travelling. Recommended reading for frequent travellers and those with the responsibility of organising the travel arrangements of others, this title is quickly becoming essential reading for hoteliers across the globe.

Distillation and absorption symposium 2006

£120.00
ISBN 978 0 85295 505 5
Symposium series 152
2006, 1028 pages, hardback

IChemE member discount: 15%

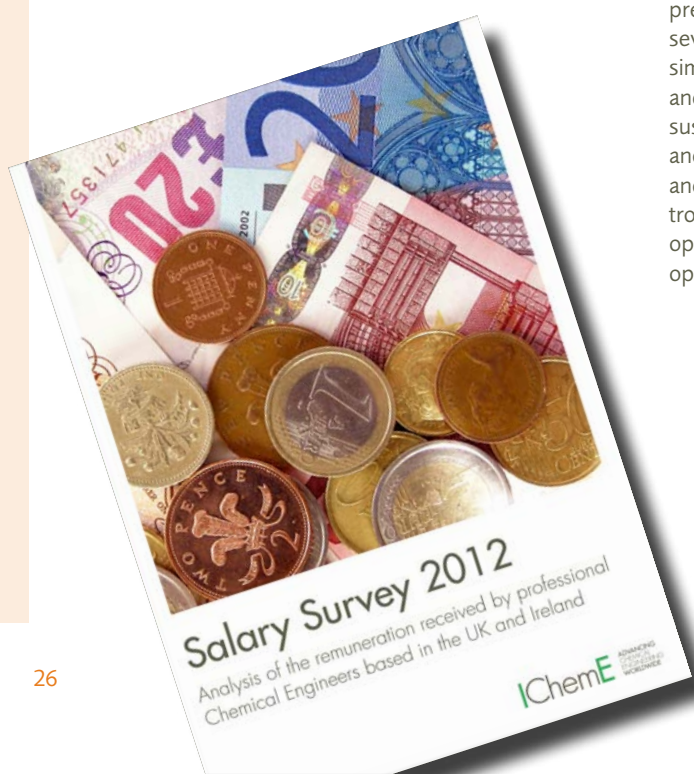
This collection of 99 contributions spanning 23 countries showcases the latest distillation and absorption technologies covering a broad range of fundamental and applied aspects of the technology. The presentations have been put into seven themes: modelling and simulation (steady-state, dynamic and CFD); energy efficiency and sustainability; equipment design and operation; integrated, hybrid and novel processes; process troubleshooting and handling operational problems; control and operation; basic data.

The 7th world congress of chemical engineering

CD ROM
£95.00 + VAT
ISBN 978 0 85295 494 2
2005

IChemE member discount: 15%

The CD-ROM contains manuscripts and abstracts of the oral, contact forum and poster presentations delivered at the congress. The five-day event featured contributions from invited experts and incorporated over 800 oral and 1000 poster presentations. Topics include: science into engineering; advancing the fundamentals; molecules into money; managing complexity; engineering for life; chemical engineering education; and right here right now.



Consultancy: an engineer's guide to getting started, 3rd edition

Edited by Henry Rowson and David Wright
£25.00
ISBN 978 0 85295 437 9
2004, 54 pages, softback

IChemE member discount: 15%

This guide provides preliminary assistance to those who are setting up in business as consultants, on either a full or part-time basis, and is a handy reference for those already practising. Looking at the problems faced by new business, the book offers advice and suggestions on issues such as setting up an office and tax and insurance matters. Helpful appendices include a basic consultancy services agreement and terms and conditions for work as an expert witness.

Physical property data book for engineers and scientists

By David Shallcross
£15.00
ISBN 978 0 85295 465 2
2004, 58 pages, softback spiral bound

IChemE member discount: 15%
Suitable for students

This book contains up-to-date, reliable data which engineering students and practising engineers and scientists involved in design will require in their daily work. Of multi-disciplinary appeal, this book is particularly relevant to chemical, biomolecular, mechanical and environmental engineers. An invaluable reference tool.

Handling uncertainty: a guide for professionals in the process industries and related fields

By Mike Briggs
£45.00
ISBN 978 0 85295 432 4
2003, 643 pages, softback

IChemE member discount: 15%

Acting as a wide-ranging guide for young professionals and a source of reference for managers, this title deals with the subject of uncertainty in a practical way, showing the reader how to recognise the key features then handle different situations effectively. Illustrated with examples, topics range from the disquiet of perceptions through lack of facts and precision in technical work to the issues arising from working with others.

Pharmaceutical production: an engineering guide

Edited by Bill Bennett and Graham Cole
£45.00
ISBN 978 0 85295 519 2
2003, 450 pages, softback

IChemE member discount: 15%

A general introduction, aimed at those involved in the engineering stages required for the manufacture of the active ingredient and its dosage forms. Chapters also focus on the design of quality control laboratories and process plants.

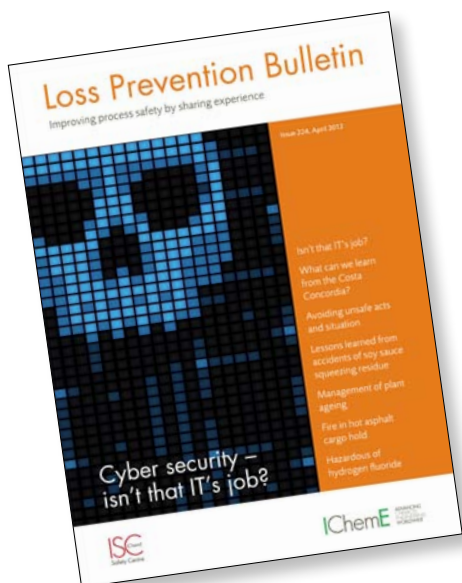
Measurement of crystal growth and nucleation rates, 2nd edition

Edited by John Garside, Alfons Mersmann and Jaroslav Nyvlt
EFCE Working Party on Crystallisation
£30.00
ISBN 978 0 85295 449 2
2002, 202 pages, hardback

IChemE member discount: 15%

Produced by the Working Party on Crystallisation of the European Federation of Chemical Engineering (EFCE), this book outlines the most important methods of measuring crystal growth and nucleation rates. It seeks to unify methods and equipment, contributing to the standardisation of these kinetic measurements. The text uses worked examples and details the appropriate treatment of data and the need for close specification of experimental conditions.

Serial publications



Loss prevention bulletin (LPB)

Print ISSN 0260-9576
Electronic ISSN 1744-358X
6 issues per year

This well established hands-on publication is a major source of industrial case studies and practical articles from the process industries. Subscribing to LPB will enable your organisation to avoid the same mistakes, learn from others' experience and build an excellent source of reference material on a wide range of situations.

www.icheme.org/lpb

Loss prevention bulletin online collection

With over 30 years of articles online, www.icheme.org/lpb is the source of information on incidents in the chemical and process engineering community for students, lecturers and engineers in the field.

Multi-site/user licences are available. Contact journals@icheme.org for a quote.

The chemical engineer (tce)

Print ISSN 0302-0797
Electronic ISSN 1745-106X
Up to 12 issues per year

tce is the leading monthly magazine for the international chemical and process engineering community. With the latest business developments, in-depth features on vital process technologies and the most comprehensive guide to current job vacancies around the world, *tce* is supported by a sister website, www.tcetoday.com

Chemical engineering research and design (ChERD)

Print ISSN 0263-8762
Electronic ISSN 1744-3563
12 issues per year
2012 volume 90
Impact factor 1.968

Official journal of the European Federation of Chemical Engineering: Part A

ChERD specialises in research with practical significance, extending the boundaries of traditional chemical engineering.

www.icheme.org/journals

Process safety and environmental protection (PSEP)

Print ISSN 0957-5820
Electronic ISSN 1744-3598
6 issues per year
2012 volume 90
Impact factor 1.050

Official journal of the European Federation of Chemical Engineering: Part B

PSEP focuses on how the process industries address process safety and environmental protection in a scientific and responsible way.

www.icheme.org/journals

Food and bioproducts processing (FBP)

Print ISSN 0960-3085
Electronic ISSN 1744-3571
4 issues per year
2012 volume 90
Impact factor 1.940

Official journal of the European Federation of Chemical Engineering: Part C

FBP is the only journal to exploit the synergy between biotechnology, bioprocessing and food engineering. Publishing high quality and original papers, FBP brings together worldwide research across a range of topics.

www.icheme.org/journals

Education for chemical engineers (ECE)

Electronic ISSN 1749-7728
Approx 30 papers per year
2012 volume 7

Official journal of the European Federation of Chemical Engineering: Part D

ECE is IChemE's online journal, containing education research papers, teaching and learning notes and resource reviews. The principle journal for chemical, process and biomolecular engineering education.

www.icheme.org/journals

IChemE online journal archive 1923–1996

IChemE's journal archive contains more than 4000 papers from *Chemical engineering research and design*, *Process safety and environmental protection* and *Food and bioproducts processing*.

Fully searchable by keyword, author, volume and issue, the archive is already used throughout the academic world and has a range of subscription and purchase options.

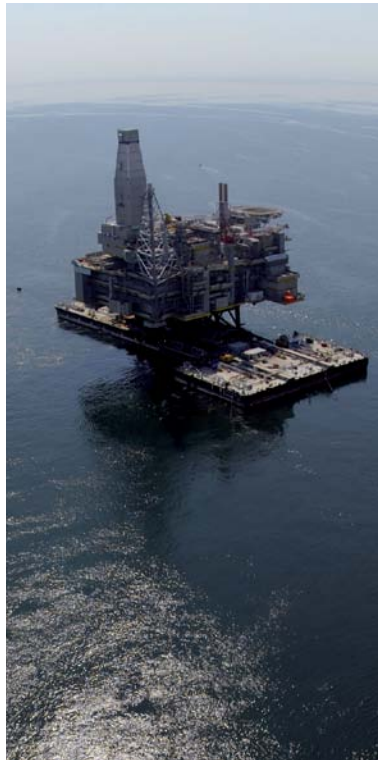
<http://archive.icheme.org>

For more information contact journals@icheme.org

Index

- A**
- An engineer's view of human error 21
 - Atomic force microscopy in process engineering 10
- B**
- Beige book 18
 - Benchmarking in the process industries 25
 - Biofuels compendium 26
 - Biomass gasification and pyrolysis: practical design
and theory 6, 8
 - BP animations 12, 20
 - BP process safety series 12–15
 - BP safety series complete set 12
 - Brown book 5, 17
 - Burgundy books 5, 17
 - By accident... a life preventing them in industry 21
- C**
- Capital cost estimating 25
 - Chemical and process plant commissioning
handbook 6, 8
 - Chemical engineer magazine, the 28
 - Chemical engineering design 11
 - Chemical engineering research and design 28
 - Chemical process equipment 10
 - Chemical reaction hazards: a guide to safety 23
 - Communication skills for engineers and scientists ... 26
 - Computational techniques for multiphase flows 10
 - Computer control and human error 21
 - Confined space entry 14
 - Consultancy: engineer's guide to getting started ... 27
 - Containment systems: a design guide 23
 - Contracts 16–19
 - Control of work 12
 - Control of work, German edition 12
 - Control of work, Mandarin edition 12
- D**
- Developing effective safety systems 24
 - Distillation and absorption symposium 2006 26
 - Dust explosion prevention and protection:
a practical guide 23
- E**
- Education for chemical engineers 28
 - Engineer's view of human error 21
 - Explosion protection: practical understanding of
recent standards and new legislation in process
safety 22
- F**
- Fires and explosions 20
 - Fluid mechanics: worked examples for engineers ... 25
 - Food and bioproducts processing 28
 - Forms of contract 5, 16–19
 - Forms of contract annual subscriptions 19
 - Forms of contract – sets 18
 - Forms of contract – electronic versions 19
 - Fundamentals of process safety 20
- G**
- Green books 5, 16
 - Grey book 18
- H**
- Handling uncertainty: a guide for professionals
in the process industries and related fields 27
 - Hazards archive 22
 - Hazard identification methods 23
 - Hazard identification and risk assessment 24
 - Hazardous substances in refineries 15
 - Hazards of air and oxygen 15
 - Hazards of electricity and static electricity 14
 - Hazards of nitrogen and catalyst handling 12
 - Hazards of oil refining distillation units 13
 - Hazards of steam 15
 - Hazards of trapped pressure and vacuum 13
 - Hazards of water 15
 - Hazards XIX: process safety and environmental
protection 22
 - Hazards XX 22
 - Hazards XXI 22
 - Hazards XXII 22
 - HAZOP: guide to best practice 22
 - HAZOP and HAZAN 21
 - Hotel fire safety 15, 26
 - Human toxicology of chemical mixtures 7, 8
- I**
- Industrial and process furnaces, principles, design
and operation 11
 - Inherently safer process design 20
 - International burgundy book 17
 - International forms of contract 16–19
 - International green book 16
 - International purple book 17
 - International red book 16
 - International yellow book 17
- J**
- Journals 28
 - Journal archive 28

K			
Kletz, Trevor	21		
L			
Lees' loss prevention in the process industries - Hazard identification, assessment and control	6, 8		
Lessons from disaster	21		
Liquid hydrocarbon tank fires	13		
LNG fire protection and emergency response	14		
Loss prevention bulletin	28		
Loss prevention bulletin online collection	28		
Loss prevention and safety performance in the process industries symposium 2007	22		
Ludwig's applied process design for chemical and petrochemical plants	10		
M			
Major accidents to the environment	11		
Major hazards and their management	24		
Managing project delivery.....	11		
Measurement of crystal growth and nucleation rates	27		
Membrane technology, a practical guide	10		
N			
Non-Newtonian flow and applied rheology	11		
O			
Orange book	17		
Ordering information	4		
P			
Pharmaceutical production: an engineering guide ...	27		
Physical property data book for engineers and scientists	27		
Pinch analysis and process integration	11		
Pink book	18		
Plant and process engineering 360	10		
Power electronics handbook.....	7, 9		
Practical risk assessment	20		
Process industry economics: an international perspective	25		
Process intensification	11		
Process plant commissioning	25		
Process plants: a handbook for inherently safer design	7, 21		
Process safety analysis: an introduction	24		
Process safety and environmental protection	28		
Process vessels subject to explosion risk: design guidelines for the pressure rating of weak process vessels subject to explosion risk	23		
Project benefits management	11		
Project management toolkit	11		
Project management toolkit, four volume set	11		
Purification of laboratory chemicals	10		
Purple books	17		
R			
Real project planning	11		
Red books	5, 16		
Reliability, maintainability and risk	7, 9		
Relief systems handbook	25		
Rules of thumb for chemical engineers.....	6, 8		
S			
Safe furnace and boiler firing	6, 12		
Safe handling of light ends	14		
Safe tank farms and (un)loading operations	13		
Safe ups and downs for process units	13		
Safe ups and downs for process units, Mandarin edition	13		
Safety courses	20		
Safety integrity – the implications of IEC 61508 and other standards for the process industries	23		
Safety issues in a dynamic business environment	23		
Safety management systems	20		
Safety performance measurement	24		
Safety relief valve handbook.....	10		
Salary survey 2012	5, 26		
SHE management systems for small to medium-sized enterprises	23		
Slide rules for estimation of foam application rates ...	14		
Solid/liquid separation: equipment selection and process design	11		
Strategies for effective maintenance: a guide for process criticality assessment and maintenance schedule setting using a qualitative approach ..	25, 26		
Subcontracts	16–19		
Sustainable design through process integration.....	6, 8		
T			
The chemical engineer (tce)	28		
Training	19, 20		
Trevor Kletz collection	21		
U			
User guide, forms of contract	17		
Using risk graphs for Safety Integrity Level (SIL) assessment	7, 22		
W			
What went wrong?	21		
White book	18		
World congress of chemical engineering, the 7th	26		
Y			
Yellow books	5, 17		



Online HAZOP training

A flexible and effective way of training in *HAZOP study for team members*, this online course covers all the essential topics needed to understand the principles and practice of HAZOP study.

Designed for graduates from a relevant discipline, off-shore operations personnel, or those with considerable operational experience who expect to be joining a HAZOP team, each training module covers a particular aspect:

- basics and background to HAZOP study
- relationship to other hazard study methods
- application to continuous and to sequential processes
- recording HAZOP study
- essential features of leading and management of a study
- making decisions in HAZOP study
- a range of examples of increasing complexity

The time required for the course is approximately 12–15 hours, and on completion we expect students to be ready to participate in HAZOP study as an effective team member.

Visit www.icheme.org/elearning for full details and to register.

For our full range of HAZOP courses visit www.icheme.org/courses

IChemE offices

Global headquarters

Rugby – UK

+44 (0) 1788 578214
customerservices@icheme.org

Australia

+61 (0) 3 9642 4494
austmembers@icheme.org

China

+86 21 5158 1626
chinamembers@icheme.org

Malaysia

+60 (3) 2166 0822
malaysianmembers@icheme.org

New Zealand

+64 (4) 473 4398
nzmembers@icheme.org

UK – London

+44 (0) 20 7927 8200
london@icheme.org

IChemE is a registered charity in England and Wales, and a charity registered in Scotland (SC 039661)

www.icheme.org