

# Publications catalogue 2009

Resources for continued development



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# Coming soon and latest releases

## 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. 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](http://www.icheme.org/bpanimations) for more details.

## Safe ups and downs for process units, 2009 edition

BP process safety series  
\$40.00  
ISBN 978 0 85295 534 5  
May 2009  
69 pages, softback

IChemE member discount: 15%  
Postage band A

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.

## Control of work, 2009 German edition

BP process safety series  
\$44.00  
ISBN 978 0 85295 535 2  
May 2009  
88 pages, softback

IChemE member discount: 15%  
Postage band A

*Control of work* (German edition)

proposes a formal approach to managing work-related risks through a control of work standard. The guide explains the 12 steps in detail and comes complete with user-friendly instructions, clear illustrations and examples of previous incidents.

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\$360.00  
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\$90.00  
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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.

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November 2009  
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This 21st symposium in the series will bring together international experts and practitioners in process safety and environmental protection to present and discuss the latest technical advances and developments in safety and environmental management techniques.

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\$260.00  
ISBN 978 0 85295 523 9  
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Hazards XX presented 91 contributions, discussing the latest technical advances and new thinking in safety and environmental management techniques. A fully-searchable CD-ROM accompanies this volume.

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This triple CD-ROM contains all of the papers from the Hazards symposium series (I–XIX) in a fully searchable PDF format, as well as papers from other related safety conferences: *Hazards from pressure; Major hazards onshore and offshore I and II; Preventing major chemical and related process incidents; Runaway reactions; and The protection of exothermic reactors and pressurised storage vessels.*

## HAZOP: guide to best practice, 2nd edition

By Brian Tyler, Frank Crawley and Malcolm Preston  
Prepared by the European Process Safety Centre (EPSC)  
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ISBN 978 0 85295 525 3  
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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.

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### Salary survey 2008 (Australia)

\$360.00  
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2008, softback

No IChemE member discount  
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These latest surveys contain updated data and analysis of the pay and benefits of professional chemical engineers at all levels. The surveys are 'must haves' for all HR departments recruiting in the process industries and anyone required to benchmark salaries.

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### International form of contract user guide – the purple book

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This guide will benefit new and experienced contract users, explaining the way in which 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, giving steps to begin working with them. This international edition covers the 2007 international versions of *The red book*, *green book*, *burgundy book* and *yellow book*.

### Hazards of oil refining distillation units, 2008 edition

BP process safety series  
\$54.00  
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2008, 86 pages, softback

IChemE member discount: 15%  
Postage band A

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.

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### Control of work, 2008, English/Mandarin edition

BP process safety series  
\$44.00  
ISBN 978 0 85295 529 1  
2008, 88 pages, softback

IChemE member discount: 15%  
Postage band A

Published paragraph by paragraph in English and Mandarin. *Control of work* proposes a formal approach to manage work-related risks through a control of work standard – a procedural form of control, consisting of 12 elements.

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

BP process safety series  
\$34.00  
ISBN 978 0 85295 530 7  
2008, 70 pages, softback

IChemE member discount: 15%  
Postage band A

Published paragraph by paragraph in English and Mandarin. This book for operators in the chemical and process industries increases their awareness of the hazards present at start-up and shutdown of process units.

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

BP process safety series  
\$64.00  
ISBN 978 0 85295 531 4  
2008, 86 pages, softback

IChemE member discount: 15%  
Postage band A

Summarising BP's decades of experience in auditing all sizes of depots, terminals and refineries, this booklet will be a gold mine of useful information to tank farm operators, managers, designers and auditors. It raises awareness to the possibility of common failures and their consequences, and helps readers to adopt safe designs and practices. This edition includes new case studies, and examines the Buncefield incident.

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### Liquid hydrocarbon tank fires, 2008 edition

BP process safety series  
\$54.00  
ISBN 978 0 85295 528 4  
2008, 100 pages, softback

IChemE member discount: 15%  
Postage band A  
Suitable for students

An essential reference tool for operators and fire fighting teams working on or near tank farms, and for public fire brigades everywhere, this booklet identifies potential emergencies and the correct response to them. Using examples of actual accidents, the booklet aims to enable readers to spot and rectify problems before incidents occur and to know how to respond. An excellent introduction to the topic for students. Three new case studies have been added to this edition.

# 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.

These titles are available via [www.icheme.org/shop](http://www.icheme.org/shop) or tel: +44 (0)1865 474003

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By David Reay, Colin Ramshaw and Adam Harvey  
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This is the first book to provide a practical working guide to understanding PI and developing successful PI solutions and applications.

### Major accidents to the environment

By Ivan Vince  
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The book 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.

### Principles of corrosion engineering and corrosion control

By Zaki Ahmad  
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With comprehensive coverage of the principles of corrosion engineering, this book is a one-stop text and reference for students and practising corrosion engineers.

### Solid/liquid separation: equipment selection and process design

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

### Pinch analysis and process integration, 2nd edition

By Ian Kemp  
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IChemE member discount: 15%  
Suitable for students

This book shows engineers how to understand and optimize energy use in their processes, whether large or small.



# BP process safety series

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

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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](http://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](http://www.icheme.org/bpanimations) for more details.

## Control of work, 2009, German edition

\$44.00  
ISBN 978 0 85295 535 2  
May 2009  
88 pages, softback

IChemE member discount: 15%  
Postage band A

*Control of work* (German edition) 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.

## Safe ups and downs for process units, 2009 edition

BP process safety series  
\$40.00  
ISBN 978 0 85295 534 5  
May 2009  
69 pages, softback

IChemE member discount: 15%  
Postage band A

New edition May 2009 see page 2 for details.

## Control of work, 2008, English/Mandarin edition

\$44.00  
ISBN 978 0 85295 529 1  
2008, 88 pages, softback

IChemE member discount: 15%  
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Published paragraph by paragraph in English and Mandarin. *Control of work* proposes a formal approach to managing work-related risks through a control of work standard – a procedural form of control, consisting of 12 elements.

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

\$34.00  
ISBN 978 0 85295 530 7  
2008, 70 pages, softback

IChemE member discount: 15%  
Postage band A

Published paragraph by paragraph in English and Mandarin. This book for operators in the chemical and process industries increases their awareness of the hazards present at start-up and shutdown of process units.

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

\$64.00  
ISBN 978 0 85295 531 4  
2008, 180 pages, softback

IChemE member discount: 15%  
Postage band A

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 overfill protection, and tank inspection and maintenance.

### Liquid hydrocarbon tank fires, 2008 edition

\$54.00  
ISBN 978 0 85295 528 4  
2008, 100 pages, softback

**IChemE member discount: 15%**  
Postage band A

**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.

### Slide rules – for estimation of foam application rates

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

**No IChemE member discount**  
Postage band C

**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**  
**\$10.00**

**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**  
**\$10.00**

These handy slide rules will be valuable for tank designers, industrial firefighters and fire brigade officers to enable them to make quick and easy calculations. Their sturdy, plastic construction makes them ideal for keeping in a pocket or a vehicle for use in the field. Detailing 1%, 3% and 6% foam concentrates, they cover both metric (SI) and imperial units (US).

Discounts available for bulk orders. Contact [sales@icheme.org](mailto:sales@icheme.org) for details.

### Hazards of oil refining distillation units, 2008 edition

\$54.00  
ISBN 978 0 85295 522 2  
2008, 100 pages, softback

**IChemE member discount: 15%**  
Postage band A

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.

### Safe handling of light ends, 2007 edition

\$54.00  
ISBN 978 0 85295 516 1  
2007, 96 pages, softback

**IChemE member discount: 15%**  
Postage band A

This book 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. The book includes a test section, making this an ideal addition to your training library.

**Complements the Feyzin animation.**

### LNG fire protection and emergency response, 2007 edition

\$64.00  
ISBN 978 0 85295 515 4  
2007, 146 pages, softback

**IChemE member discount: 15%**  
Postage band A

This book provides an overall understanding of liquefied natural gas (LNG), the potential emergency situations that may arise at facilities and how to deal with these incidents, as well as general LNG safety issues. Aimed at design engineers, project engineers, facility operators, safety professionals and fire and emergency responders, the book helps them to understand the nature and hazards of LNG, and the special fire hazard management and emergency response measures required for such facilities.



# BP process safety series

## Control of work, 2007 edition

\$44.00  
ISBN 978 0 85295 514 7  
2007, 88 pages, softback

**IChemE member discount: 15%**  
Postage band A

Updated with recent case studies, *Control of work* 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. 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.

## Hazards of nitrogen and catalyst handling, 2006 edition

\$34.00  
ISBN 978 0 85295 507 9  
2006, 60 pages, softback

**IChemE member discount: 15%**  
Postage band A

This book aims to improve the understanding of the basic principles for the safe use of nitrogen. Split into two sections (*Safe use of nitrogen* and *Safe handling of catalyst*), *Hazards of nitrogen and catalyst handling* concludes with a test paper, suitable for training purposes. This latest edition includes new case studies.

## Hazards of electricity and static electricity, 2006 edition

\$50.00  
ISBN 978 0 85295 503 1  
2006, 104 pages, softback

**IChemE member discount: 15%**  
Postage band A

This title 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. With a training test included at the back of the book, this title makes an ideal staff development manual and a vital reference tool.

## Safe ups and downs for process units, 2006 edition

\$34.00  
ISBN 978 0 85295 502 4  
2006, 70 pages, softback

**IChemE member discount: 15%**  
Postage band A

A significant proportion of serious industry incidents occur during process shutdowns or start-ups. The Chernobyl disaster in 1986 and the Milford Haven explosion in 1994 are good examples from the nuclear and oil industries. Using case studies of previous accidents to highlight potential threats, the guide suggests potential safeguards to ensure these dangers are minimised in the reader's workplace. This edition includes a new chapter on the importance of procedures in safe start-ups and shutdowns, illustrated by two detailed incident descriptions, including the Texas City explosion of 2005.

Complements the Grangemouth hydrocracker explosion and Milford Haven animations.

## Hazardous substances in refineries, 2005 edition

\$44.00  
ISBN 978 0 85295 482 9  
2005, 92 pages, softback

**IChemE member discount: 15%**  
Postage band A

Hazardous substances are handled routinely in refineries, yet contact with these can prove fatal in a matter of seconds. *Hazardous substances in refineries* has been 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 and also contains a test paper – ideal to test yourself, or as an effective training tool.

## Hotel fire safety, 2005 edition

\$34.00  
ISBN 978 0 85295 480 5  
2005, 52 pages, softback

**IChemE member discount: 15%**  
Postage band A  
**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.



### Confined space entry, 2005 edition

\$44.00  
ISBN 978 0 85295 479 9  
2005, 90 pages, softback

IChemE member discount: 15%  
Postage band A  
Suitable for students

Confined space entry is 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. An excellent introduction to the topic for students.

### Hazards of trapped pressure and vacuum, 2005 edition

\$54.00  
ISBN 978 0 85295 475 1  
2005, 92 pages, softback

IChemE member discount: 15%  
Postage band A  
Suitable for students

This subject may seem quite simple to the experienced operator, yet every year we see incidents relating to overpressurisation or vacuuming of equipment. *Hazards of trapped pressure and vacuum* is divided into two sections and uses case studies of actual accidents to highlight the potential threats and explain the possible causes, before recommending safeguards. This is another excellent text for students, and an ideal training and reference tool for more experienced staff.

Complements the Grangemouth hydrocracker explosion animation.

### Safe furnace and boiler firing, 2005 edition

\$44.00  
ISBN 978 0 85295 472 0  
2005, 80 pages, softback

IChemE member discount: 15%  
Postage band A  
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 steam, 2004 edition

\$34.00  
ISBN 978 0 85295 468 3  
2004, 39 pages, softback

IChemE member discount: 15%  
Postage band A

Steam is used in nearly all aspects of the chemical and oil industries. Despite the extensive experience accumulated in handling it, we still see incidents occurring. *Hazards of steam* highlights these incidents and helps the reader recognise how similar threats could occur in their working environment. The book concludes with a self-test section, allowing readers to ensure they are fully aware of the hazards highlighted in the book. This handy guide is 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 air and oxygen, 2004 edition

\$34.00  
ISBN 978 0 85295 467 6  
2004, 59 pages, softback

IChemE member discount: 15%  
Postage band A  
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 water, 2004 edition

\$34.00  
ISBN 978 0 85295 466 9  
2004, 60 pages, softback

IChemE member discount: 15%  
Postage band A  
Suitable for students

*Hazards of water* uses real-life case studies to highlight the potential threats and danger of water, explaining the possible causes of such incidents, and enabling operators to spot and rectify potential hazards before accidents occur. A knowledge of how water reacts, where it can be expected and how to eliminate or control it will make your unit and job safer and easier. Ideal as an introductory text to the subject for students, or as a refresher and handy reference guide for the more experienced worker.



# Forms of contract

For over 40 years IChemE has published *Forms of contract* specifically for the process industries. They have been written to promote teamwork and have led to a reduction in the confrontational approach so often found in conventional construction projects. This style has been a factor in the implementation of these forms by industries outside typical process industries. Process plants are judged by their performance in operation. Process industry contracts must, therefore, also be performance based. This is the underlying philosophy of IChemE's *Forms of contract* suite, and is fundamentally different from contracts used in much of the wider construction industry.

All the contracts are internally consistent and have extensive guide notes to help in their completion and operation. They are supported by user guides, training courses and an active user group. Originally the IChemE contracts were drafted to operate under English law. Their growing international use has led to the preparation of a further suite of *Forms of contract* written for international use under a wide range of legal systems.

## Contracts working party

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 have extensive guide notes to help in their completion and operation. They reflect best practice in the process industries and recent developments in both law and project implementation. IChemE's contracts have been specifically written to reflect the particular needs of the process industries.

- 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, 4th edition (UK version)

\$90.00  
ISBN 978 0 85295 443 0  
2001, 97 pages, softback

## International form of contract: lump sum contracts – the international red book

\$110.00  
ISBN 978 0 85295 510 9  
2007, 112 pages, softback

No IChemE member discount  
Postage band A

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.

## Form of contract: reimbursable contracts – the green book, 3rd edition (UK version)

\$90.00  
ISBN 978 0 85295 444 7  
2002, 100 pages, softback

## International form of contract: reimbursable contracts – the international green book

\$110.00  
ISBN 978 0 85295 511 6  
2007, 116 pages, softback

No IChemE member discount  
Postage band A

Based on the philosophy of co-operation between parties to achieve the mutual objective of a successful project, *The green book* aim 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.



**Form of contract: target cost contracts – the burgundy book (UK version)**

\$90.00  
ISBN 978 0 85295 458 4  
2009, 109 pages, softback

**International form of contract: target cost contracts – the international burgundy book**

\$110.00  
ISBN 978 0 85295 512 3  
2007, 122 pages, softback

No IChemE member discount  
Postage band A

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 (ie 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 during the contract.

**Form of contract: subcontracts – the yellow book, 3rd edition (UK version)**

\$90.00  
ISBN 978 0 85295 445 4  
2003, 75 pages, softback

**International form of contract: subcontracts – the international yellow book**

\$110.00  
ISBN 978 0 85295 513 0  
2007, 90 pages, softback

No IChemE member discount  
Postage band A

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.

**Form of contract: minor works – the orange book, 2nd edition**

\$90.00  
ISBN 978 0 85295 452 2  
2003, 29 pages, softback

No IChemE member discount  
Postage band A

*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, 2nd edition**

\$90.00  
ISBN 978 0 85295 453 9  
2004, 66 pages, softback

No IChemE member discount  
Postage band A

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. The second edition includes a new clause on related issues under main contract, payment clauses improved by the inclusion of provisional and prime cost sum, and an improved guidance section offering detailed advice on compiling the contract.

**Forms of contract user guide – the purple book, 4th edition**

\$110.00  
ISBN 978 0 85295 451 5  
2004, 300 pages, softback

No IChemE member discount  
Postage band B

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**

\$110.00  
ISBN 978 0 85295 517 8  
2008, 130 pages, softback

No IChemE member discount  
Postage band A

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

\$40.00  
ISBN 978 0 85295 495 9  
2005, 16 pages, softback

No IChemE member discount  
Postage band A

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

\$40.00  
ISBN 978 0 85295 487 4  
2005, 12 pages, softback

No IChemE member discount  
Postage band A

*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 element 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

\$40.00  
ISBN 978 0 85295 470 6  
2004, 10 pages, softback

No IChemE member discount  
Postage band A

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

\$40.00  
ISBN 978 0 85295 486 7  
2005, 26 pages, softback

No IChemE member discount  
Postage band A

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.

## Dispute resolvers

Dispute resolution appointments are made from one of three lists – adjudicators, experts or arbitrators. These are held at IChemE in Rugby, UK, and are available free on request, email [contracts@icheme.org](mailto:contracts@icheme.org)

## Forms of contract – sets – saving up to \$200

Set 1: \$488.00  
*Red 4th, Green 3rd, Burgundy 1st, Orange 2nd, Yellow 3rd, Brown 2nd, Purple 4th*

ISBN 978 0 85295 313 6

Set 2: \$568.00  
*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: \$504.00  
*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](mailto:sales@icheme.org) for details.

## 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

### Licensed electronic versions

The *Forms of contract* are available under license, \$1000 each:

- *The international red book*
- *The international green book*
- *The international burgundy book*
- *The international yellow book*
- *The red book, 4th edition*
- *The green book, 3rd edition*
- *The burgundy book*
- *The orange book, 2nd edition*
- *The brown book, 2nd edition*
- *The yellow book, 3rd 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](mailto: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 \$5000.00 per annum each. Purchasers of more than one contract are entitled to considerable discounts:

2 contracts: \$8000  
(saving 20%)

3 contracts: \$11250  
(saving 25%)

4 contracts: \$14000  
(saving 30%)

5 contracts: \$16250  
(saving 35%)

6 contracts: \$18000  
(saving 40%)

## User group

In order to continue to produce contracts that are both valid to the current market and easy to use, the *contracts working party* has established a user group to provide feedback on the current range of products and suggestions for possible product development. Time allocation to this initiative is minimal – an annual meeting, held in London, UK, plus occasional correspondence via email.

If you are interested in joining contact Jacqueline Cressey, [jcressey@icheme.org](mailto:jcressey@icheme.org)

## Training - courses

### Process Contracts

30 November – 1 December 2009, London, UK

This course is designed to help users gain an increased understanding of the Forms of Contract available and how to use them to their best advantage. It concentrates on two families of conditions – the IChemE Forms of contract, used in the chemical and process industries and the MF1 Conditions of contract, used in the electrical and mechanical industries.

### What every engineer should know about contracts

1-2 April 2009, London, UK

1-2 July 2009, London, UK

25-26 November 2009, London, UK

When managing projects whether large or small, a clear understanding of the law of contract is essential. Failure to understand the basics can prove very expensive. This course has been delivered to engineers of various disciplines over many years, and will provide invaluable knowledge and understanding of the law of contract as it applies to engineering projects.

Full details available via [www.icheme.org/shortcourses](http://www.icheme.org/shortcourses)

## Training - in-company

Arranging in-company training is an effective method of making the most of your training budget and the benefits of company specific training are easy to see:

- Reduced cost per head
- Control of course length and programme
- Control over venue and dates for training
- Programme designed just for your company needs
- Increased motivation and commitment from workforce
- Increase business performance

Contact the Courses department for a quote

Email: [courses@icheme.org](mailto:courses@icheme.org)



# 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.

## Inherently safer process design (CD-ROM)

\$570.00  
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)

\$370.00  
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)

\$390.00  
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)

\$190.00  
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.

## 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/bpanimations](http://www.icheme.org/bpanimations)

## Safety courses

Our training programme features a comprehensive range of quality-assured courses with the aim of encouraging chemical, biochemical and process engineering professionals to focus on their professional development.

Investigations into recent incidents, such as the Baker Panel report into the Texas City explosion, have highlighted the importance of having a clear understanding of the principles of process safety management throughout an organisation. To meet this need IChemE introduced an intensive five-day course covering the *Fundamentals of process safety* targeted at all staff levels in an organisation, from board members through to engineers, technical staff, and all plant operators, managers and supervisors.

Other subject areas include: HAZOP study, fire and explosion investigation, and strategic safety management. For full details of all the courses visit [www.icheme.org/courses](http://www.icheme.org/courses)



# The Trevor Kletz collection

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

\$90.00  
ISBN 978 0 85295 532 1  
2001, 281 pages, softback

**IChemE member discount: 15%**  
Postage band B  
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.

## HAZOP and HAZAN, 4th edition

\$90.00  
ISBN 978 0 85295 506 2  
1999, 232 pages, softback

**IChemE member discount: 15%**  
Postage band B  
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  
\$60.00  
ISBN 978 0 85295 362 4  
1995, 120 pages, hardback

**IChemE member discount: 15%**  
Postage band B

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

\$64.00  
ISBN 978 0 85295 307 5  
1993, 183 pages, hardback

**IChemE member discount: 15%**  
Postage band B

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

## By accident... a life preventing them in industry

\$20.00  
ISBN 978 0 95384 400 5  
2000, 144 pages, softback

**IChemE member discount: 15%**  
Postage band B

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.

## What went wrong? Case studies of process plant disasters, 4th edition

\$109.98  
Butterworth Heinemann  
ISBN 978 0 88415 920 9  
1998, 408 pages, hardback

**IChemE member discount: 15%**

**New edition due June 2009.**  
See page 4 for details.

## Still going wrong! Case histories of process plant disasters and how they could have been avoided

\$72.00  
Butterworth Heinemann  
ISBN 978 0 7506 7709 7  
2003, 250 pages, hardback

**IChemE member discount: 15%**

## Learning from accidents, 3rd edition

\$100.00  
Butterworth Heinemann  
ISBN 978 0 7506 4883 7  
2001, 352 pages, hardback

**IChemE member discount: 15%**

## Process plants: a handbook for inherently safer design, 2nd edition

\$114.00  
Taylor and Francis Inc  
ISBN 978 1 56032 619 9  
1998, 224 pages, hardback

**IChemE member discount: 15%**

Order from Taylor & Francis via [www.icheme.org/shop](http://www.icheme.org/shop)

## Dispelling chemical industry myths

\$114.00  
Taylor & Francis Inc  
ISBN 978 1 56032 438 6  
1996, 200 pages, hardback

**IChemE member discount: 15%**

Order from Taylor & Francis via [www.icheme.org/shop](http://www.icheme.org/shop)

# Safety and loss prevention

## Loss prevention and safety performance in the process industries symposium 2007 (CD-ROM)

\$260.00  
ISBN 978 0 85295 508 6  
Symposium series 153  
2007

**IChemE member discount: 15%**  
Postage band A

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.

## Hazard identification methods

By Frank Crawley and Brian Tyler  
Prepared by the European Process Safety Centre (EPSC)  
\$90.00  
ISBN 978 0 85295 457 7  
2003, 98 pages, softback

**IChemE member discount: 15%**  
Postage band A

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.

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

Prepared by the European Process Safety Centre (EPSC)  
\$80.00  
ISBN 978 0 85295 456 0  
2003, 96 pages, softback

**IChemE member discount: 15%**  
Postage band A

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.

## Containment systems: a design guide

Edited by Nigel Hurst, Mike Brocklebank and Martyn Ryder  
\$120.00  
ISBN 978 0 85295 407 2  
2002, 199 pages, hardback

**IChemE member discount: 15%**  
Postage band B

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  
\$180.00  
ISBN 978 0 85295 410 2  
2001, 352 pages, hardback

**IChemE member discount: 15%**  
Postage band B

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  
\$59.00  
ISBN 978 0 85295 431 7  
2001, 298 pages, softback

**IChemE member discount: 15%**  
Postage band B

### 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.



### HAZOP: guide to best practice, 2nd edition

By Brian Tyler, Frank Crawley and Malcolm Preston  
Prepared by the European Process Safety Centre (EPSC)  
\$80.00  
ISBN 978 0 85295 525 3  
2008, 141 pages, softback

**IChemE member discount: 15%**  
Postage band A  
**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.

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

Prepared by the European Process Safety Centre (EPSC)  
\$80.00  
ISBN 978 0 85295 412 6  
2000, 109 pages, softback

**IChemE member discount: 15%**  
Postage band A

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

### SHE management systems for small to medium-sized enterprises

By Anders Jacobsson  
Prepared by the European Process Safety Centre (EPSC)  
\$90.00  
ISBN 978 0 85295 433 1  
2000, 118 pages, softback

**IChemE member discount: 15%**  
Postage band B

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.

### 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)  
\$50.00  
ISBN 978 0 85295 428 7  
2000, 76 pages, softback

**No IChemE member discount**  
Postage band A

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.

### Hazards XXI: process safety and environmental protection in a changing world (with CD-ROM)

Est \$260.00  
ISBN 978 0 85295 536 9  
Symposium series 155  
November 2009  
hardback

**IChemE member discount: 15%**  
Postage band B

This 21st symposium in the series will bring together international experts and practitioners in process safety and environmental protection to present and discuss the latest technical advances and developments in safety and environmental management techniques.

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

\$260.00  
ISBN 978 0 85295 523 9  
Symposium series 154  
2008, 1160 pages, hardback

**IChemE member discount: 15%**  
Postage band B

The symposium 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 archive symposia I–XIX (CD-ROM)

\$600.00  
ISBN 978 0 85295 526 0  
2008, CD-ROM

**IChemE member discount: 15%**  
Postage band A

This triple CD-ROM contains all of the papers from the Hazards symposium series (I–XIX) in a fully searchable PDF format, as well as papers from other related safety conferences: *Hazards from pressure*, *Major hazards onshore and offshore I and II*, *Preventing major chemical and related process incidents*, *Runaway reactions*, and *The protection of exothermic reactors and pressurised storage vessels*.

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

\$220.00  
ISBN 978 0 85295 492 8  
Symposium series 151  
2006, 1024 pages, hardback

**IChemE member discount: 15%**  
Postage band B

Hazards XIX contains the papers presented at the 2006 symposium.

For previous titles in the Hazards series visit [www.icheme.org/shop](http://www.icheme.org/shop)

# Safety and loss prevention

## Safety issues in a dynamic business environment

Prepared by the European Process Safety Centre (EPSC)  
\$70.00  
ISBN 978 0 85295 439 3  
2000, 73 pages, softback

**IChemE member discount: 15%**  
Postage band A

Show 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.

## Major hazards and their management

By Geoff Wells  
\$130.00  
ISBN 978 0 85295 368 6  
1997, 305 pages, hardback

**IChemE member discount: 15%**  
Postage band B

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*.



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

Edited by John Barton and Richard Rogers  
\$90.00  
ISBN 978 0 85295 464 5  
1997, 225 pages, softback

**IChemE member discount: 15%**  
Postage band B

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.

## Process safety analysis: an introduction

By Bob Skelton  
\$52.00  
ISBN 978 0 85295 378 5  
1997, 213 pages, softback

**IChemE member discount: 15%**  
Postage band B

### 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  
\$150.00  
ISBN 978 0 85295 463 8  
1996, 302 pages, softback

**IChemE member discount: 15%**  
Postage band B

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)  
\$6.00  
ISBN 978 0 85295 382 2  
1996, 135 pages, hardback

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Edited by Henry Rowson and David Wright  
\$50.00  
ISBN 978 0 85295 437 9  
2004, 54 pages, softback

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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.

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

By Mike Briggs  
\$90.00  
ISBN 978 0 85295 432 4  
2003, 643 pages, softback

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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.

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### Pharmaceutical production: an engineering guide

Edited by Bill Bennett and Graham Cole  
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Edited by John Garside, Alfons Mersmann and Jaroslav Nyvlt  
EFCE Working Party on Crystallisation  
\$60.00  
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2002, 202 pages, hardback

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Produced by the Working Party on Crystallisation of the European Federation of Chemical Engineering, 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.

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Electronic ISSN 1744-3571  
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Electronic ISSN 1745-106X  
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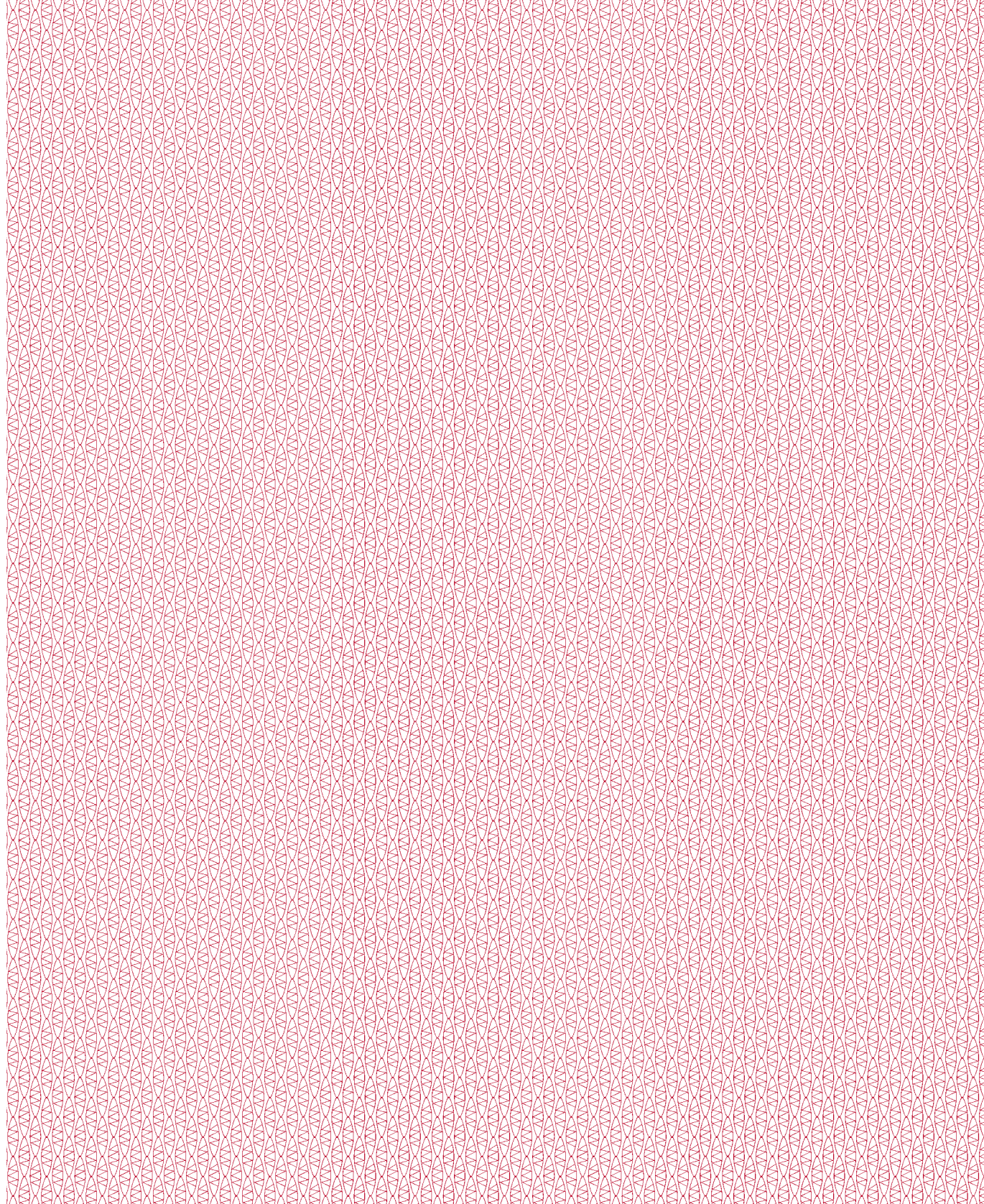
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