

Coulson Richardson Chemical Engineering Volume 6

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Coulson and Richardson's Chemical Engineering Elsevier

Coulson and Richardson's classic series provides the student with an account of the fundamentals of chemical engineering and constitutes the definitive work on the subject for academics and practitioners. Each book provides clear explanations of theory and thorough coverage of practical applications, supported by numerous worked examples and problems. Thus, the text is designed for students as well as being comprehensive in coverage. This volume covers the three main transport process of interest to chemical engineers - momentum transfer (fluid flow), heat transfer and mass transfer and the relationships between them. The concluding chapter covers an application where each of these processes is occurring simultaneously - water cooling and humidification. The topics covered form the theoretical basis for much of the material in the later volumes of the series.

Coulson and Richardson's Chemical Engineering Elsevier

The publication of the third edition of 'Chemical Engineering Volume 3' marks the completion of the re-orientation of the basic material contained in the first three volumes of the series. Volume 3 is devoted to reaction engineering (both chemical and biochemical), together with measurement and process control. This text is designed for students, graduate and postgraduate, of chemical engineering.

Coulson and Richardson's Chemical Engineering Elsevier

Chemical Engineering Volume 2 covers the properties of particulate systems, including the character of individual particles and their behaviour in fluids. Sedimentation of particles, both singly and at high concentrations, flow in packed and fluidised beds and filtration are then examined. The latter part of the book deals with separation processes, such as distillation and gas absorption, which illustrate applications of the fundamental principles of mass transfer introduced in Chemical Engineering Volume 1. In conclusion, several techniques of growing importance - adsorption, ion exchange, chromatographic and membrane separations, and process intensification - are described.

Chemical Engineering Butterworth-Heinemann

This 2nd Edition of Coulson & Richardson's classic Chemical Engineering text provides a complete update and revision of Volume 6: An Introduction to Design. It provides a revised and updated introduction to the methodology and procedures for process design and process equipment selection and design for the chemical process and allied industries. It includes material on flow sheeting, piping and instrumentation, mechanical design of equipment, costing and project evaluation, safety and loss prevention. The material on safety and loss prevention and environmental protection has been revised to cover current procedures and legislation. Process integration and the use of heat pumps has been included in the chapter on energy utilisation. Additional material has been added on heat transfer equipment; agitated vessels are now covered and the discussion of fired heaters and plate heat exchangers extended. The appendices have been extended to include a computer program for energy balances, illustrations of equipment specification sheets and heat exchanger tube layout diagrams. This 2nd Edition will continue to provide undergraduate students of chemical engineering, chemical engineers in industry and chemists and mechanical engineers, who have to tackle problems arising in the process industries, with a valuable text on how a complete process is designed and how it must be fitted into the environment.

Coulson and Richardson's Chemical Engineering Elsevier

Coulson and Richardson's Chemical Engineering: Volume 3A: Chemical and Biochemical Reactors and Reaction Engineering, Fourth Edition, covers reactor design, flow modelling, gas-liquid and gas-solid reactions and reactors. Captures content converted from textbooks into fully revised reference material Includes content ranging from foundational through technical Features emerging applications, numerical methods and computational tools

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theory and thorough coverage of practical applications, supported by numerous worked examples and problems. Thus, the text is designed for students as well as being comprehensive in coverage. This volume covers the three main transport process of interest to chemical engineers - momentum transfer (fluid flow), heat transfer and mass transfer and the relationships between them. The concluding chapter covers an application where each of these processes is occurring simultaneously - water cooling and humidification. The topics covered form the theoretical basis for much of the material in the later volumes of the series.

Chemical Engineering: Chemical Engineering Design-Vol.6, 5e Cambridge University Press

Coulson and Richardson's Chemical Engineering: Volume 2B, Separation Processes, Sixth Edition, covers distillation and gas absorption, illustrating applications of the fundamental principles of mass transfer. Several techniques, including adsorption, ion exchange, chromatographic membrane separations and process intensification are comprehensively covered and explored. Presents content converted from textbooks into fully revised reference material Provides content that ranges from foundational to technical Includes new additions, such as emerging applications, numerical methods, and computational tools

Chemical Engineering Volume 1 Butterworth-Heinemann
Coulson and Richardson's Chemical Engineering: Volume 3B: Process Control, Fourth Edition, covers reactor design, flow modeling, and gas-liquid and gas-solid reactions and reactors. Converted from textbooks into fully revised reference material Content ranges from foundational through to technical Added emerging applications, numerical methods and computational tools

Chemical Engineering Butterworth-Heinemann

Coulson and Richardson's Chemical Engineering has been fully revised and updated to provide practitioners with an overview of chemical engineering. Each reference book provides clear explanations of theory and thorough coverage of practical applications, supported by case studies. A worldwide team of editors and contributors have pooled their experience in adding new content and revising the old. The authoritative style of the original volumes 1 to 3 has been retained, but the content has been brought up to date and altered to be more useful to practicing engineers. This complete reference to chemical engineering will support you throughout your career, as it covers every key chemical engineering topic. Coulson and Richardson's Chemical Engineering: Volume 1B: Heat and Mass Transfer: Fundamentals and Applications, Seventh Edition, covers two of the main transport processes of interest to chemical engineers: heat transfer and mass transfer, and the relationships among them. Covers two of the three main transport processes of interest to chemical engineers: heat transfer and mass transfer, and the relationships between them Includes reference material converted from textbooks Explores topics, from foundational through technical Includes emerging applications, numerical methods, and computational tools

Chemical Engineering Butterworth-Heinemann
An introduction to the art and practice of design as applied to chemical processes and equipment. It is intended primarily as a text for chemical engineering students undertaking the design projects that are set as part of undergraduate courses in chemical engineering in the UK and USA. It has been written to complement the treatment of

chemical engineering fundamentals given in Chemical Engineering volumes 1, 2 and 3. Examples are given in each chapter to illustrate the design methods presented.

Professional Publishing

This volume in the Coulson and Richardson series in chemical engineering contains full worked solutions to the problems posed in volume 1. Whilst the main volume contains illustrative worked examples throughout the text, this book contains answers to the more challenging questions posed at the end of each chapter of the main text. These questions are of both a standard and non-standard nature, and so will prove to be of interest to both academic staff teaching courses in this area and to the keen student. Chemical engineers in industry who are looking for a standard solution to a real-life problem will also find the book of considerable interest. * An invaluable source of information for the student studying the material contained in Chemical Engineering Volume 1* A helpful method of learning - answers are explained in full

Chemical Engineering Elsevier

Coulson and Richardson's classic series provides the student with an account of the fundamentals of chemical engineering and constitutes the definitive work on the subject for academics and practitioners. Each book provides clear explanations of theory and thorough coverage of practical applications, supported by numerous worked examples and problems. Thus, the text is designed for students as well as being comprehensive in coverage. The first volume focuses on the general mechanisms of diffusion, fluid flow and heat transfer. Revised and updated throughout, the fifth edition also includes new material on effectiveness of heat exchangers, and a new section on simultaneous reactions and unsteady state mass transfer. In addition, the text has been reset and all the diagrams redrawn, resulting in a book that is clearer and easier to use than ever before.

Chemical Engineering John Wiley & Sons

Coulson and Richardson's Chemical Engineering: Volume 3A: Chemical and Biochemical Reactors and Reaction Engineering, Fourth Edition, covers reactor design, flow modelling, gas-liquid and gas-solid reactions and reactors. Captures content converted from textbooks into fully revised reference material Includes content ranging from foundational through technical Features emerging applications, numerical methods and computational tools

Chemical Engineering Design McGraw-Hill Professional Publishing

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Scale-up in Chemical Engineering Butterworth-Heinemann

Coulson and Richardson's Chemical Engineering: Volume 2A: Particulate Systems and Particle Technology, Sixth Edition, has been fully revised and updated to provide practitioners with an overview of chemical engineering, including clear explanations of theory and thorough coverage of practical applications, all supported by case studies. A worldwide team of contributors has pooled their experience to revise old content and add new content. The content has been updated to be more useful to practicing engineers. This complete reference to chemical engineering

