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Coulson and Richardson's Chemical Engineering Volume 3 (Chemical & Biochemical Reactors, and Process Control), 3rd Edition, by J.F. Richardson and D.G. Peacock (Eds), Pergamon Press, Oxford, UK (1994). 776 pages. ISBN 0?08?041002?2. - Ray - 1995 - Developments in Chemical Engineering and Mineral Processing - Wiley Online Library

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Series: Coulson & Richardson's Chemical Engineering (Book 3) Paperback: 778 pages; Publisher: Butterworth-Heinemann; 3 edition (January 15, 1994) Language: English; ISBN-10: 0080410030; ISBN-13: 978-0080410036; Product Dimensions: 6.7 x 1.8 x 9.6 inches Shipping Weight: 3.4 pounds (View shipping rates and policies)

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This third edition of Applied Process Design for Chemical and Petrochemical Plants, Volume 3, is completely revised and updated throughout to make this standard reference more valuable than ever.

The publication of the third edition of "Chemical Engineering Volume" 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.

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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. A logical progression of chemical engineering concepts, volume 2 builds on fundamental principles contained in Chemical Engineering volume 1 and these volumes are fully cross-referenced. Reflects the growth in complexity and stature of chemical engineering over the last few years Supported with further reading at the end of each chapter and graded problems at the end of the book

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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 will support you throughout your career, as it covers every key chemical engineering topic. Fluid Flow, Heat Transfer and Mass Transfer has been developed from the series' volume 1, 6th edition. 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. Particulate Systems and Particle Technology has been developed from the series' volume 2, 5th edition. This volume covers the properties of particulate systems, including the character of individual particles and their behavior in fluids. Sedimentation of particles, both singly and at high concentrations, flow in packed and fluidized beds and filtration are then examined. Separation Processes has been developed from the series' volume 2, 5th edition. This volume covers distillation and gas absorption, which illustrate applications of the fundamental principles of mass transfer. Several techniques-adsorption, ion exchange, chromatographic and membrane separations, and process intensification-are described. Chemical and Biochemical Reactors and Reaction Engineering has been developed from the series' volume 3, 3rd edition. Features fully revised reference material converted from textbooks Covers foundational to technical topics Features emerging applications, numerical methods and computational tools

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This third edition of Applied Process Design for Chemical and Petrochemical Plants, Volume 3, is completely revised and updated throughout to make this standard reference more valuable than ever. It has been expanded by more than 200 pages to include the latest technological and process developments in heat transfer, refrigeration, compression and compression surge drums, and mechanical drivers. Like other volumes in this classic series, this one emphasizes how to apply techniques of process design and how to interpret results into mechanical equipment details. It focuses on the applied aspects of chemical engineering design to aid the design and/or project engineers in rating process requirements, specifying for purchasing purposes, and interpreting and selecting the mechanical equipment needed to satisfy the process functions. Process chemical engineering and mechanical hydraulics are included in the design procedures. Includes updated information that allows for efficiency and accuracy in daily tasks and operations Part of a classic series in the industry

Understanding mathematical modeling is fundamental in chemical engineering. This book reviews, introduces, and develops the mathematical models that are most frequently encountered in sophisticated chemical engineering domains. The volume provides a collection of models illustrating the power and richness of the mathematical sciences in supplying insight into the operation of important real-world systems. It fills a gap within modeling texts, focusing on applications across a broad range of disciplines. The first part of the book discusses the general components of the modeling process and highlights the potential of modeling in the production of nanofibers. These chapters discuss the general components of the modeling process and the evolutionary nature of successful model building in the electrospinning process. Electrospinning is the most versatile technique for the preparation of continuous nanofibers obtained from numerous materials. This section of book summarizes the state-of-the-art in electrospinning as well as updates on theoretical aspects and applications. Part 2 of the book presents a selection of special topics on issues in applied chemistry and chemical engineering, including nanocomposite coating processes by electrocodeposition method, entropic factors conformational interactions, and the application of artificial neural network and meta-heuristic algorithms. This volume covers a wide range of topics in mathematical modeling, computational science, and applied mathematics. It presents a wealth of new results in the development of modeling theories and methods, advancing diverse areas of applications and promoting interdisciplinary interactions between mathematicians, scientists, engineers and representatives from other disciplines.

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