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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

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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.

The #1 guide to aerosol science and technology - now better than ever. Since 1982, *Aerosol Technology* has been the text of choice among students and professionals who need to acquire a thorough working knowledge of modern aerosol theory and applications. Now revised to reflect the considerable advances that have been made over the past seventeen years across a broad spectrum of aerosol-related application areas - from occupational hygiene and biomedical technology to microelectronics and pollution control - this new edition includes:

- * A chapter on bioaerosols
- * New sections on resuspension, transport losses, respiratory deposition models, and fractal characterization of particles
- * Expanded coverage of atmospheric aerosols, including background aerosols and urban aerosols
- * A section on the impact of aerosols on global warming and ozone depletion.

Aerosol Technology, Second Edition also features dozens of new, fully worked examples drawn from a wide range of industrial and research settings, plus new chapter-end practice problems to help readers master the material quickly.

Monodispersed Particles, Second Edition, covers all aspects of monodispersed particles, including inorganic and polymer particles and their composites. The book describes their fundamentals, preparation, analyses, and applications, covering both the theoretical approaches and practical applications of surface energy of particles, energetics of habit control, anisotropic growth, diverse monodispersed systems, arrested growth mechanism, tabular structures, detection and manipulation of biological particles, and photochromics and other light-sensitive particles. This second edition is fully updated and revised, detailing recent progress in the field of nanoparticles. Covers most of the known uniform particles, including inorganic and polymer particles and their composites. Includes recent progress in the field of nanoparticles with many new applications. Features 2000 bibliographic references, providing a comprehensive guide to related study.

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 processes 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.

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This book is a brief exposition of the principles of beam physics and particle accelerators with emphasis on numerical examples employing readily available computer tools. Avoiding detailed derivations, we invite the reader to use general high-end languages such as Mathcad and Matlab, as well as specialized particle accelerator codes (e.g. MAD, WinAgile, Elegant, and others) to explore the principles presented. This approach allows the student to readily identify relevant design parameters and their scaling and easily adapt computer input files to other related situations.

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