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Basic Soil Mechanics has long been established as the standard work on the subject for degree and diploma

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students of civil engineering and building. The third edition has been fully revised and updated to provide students not only with the basic principles but also with an awareness of state-of-the-art

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developments in the field. The approach to stress/strain behaviour has been reconsidered in the light of modern educational methods and the chapter on earth pressure has been revised to

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take account of the long-awaited British Standard BS 8002. The book also gives greater emphasis to design methods and the use of computers. Basic Soil Mechanics is an essential text

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for BTEC HNC/D and undergraduate degree courses in civil engineering. It will also be a valuable resource for practising engineers engaged in the design and construction of soil-related structures and

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systems.

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised

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throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new

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discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment

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selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet

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this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and

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environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or

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practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp design
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estimation, process costing
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This book uses elementary versions of
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sophisticated mathematics to discuss portions of "advanced calculus" in which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level.

Traditionally, industrial hygienists and environmental engineers have been responsible for conducting chemical

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exposure assessments, however, this task is now becoming a team effort taken on by scientists, businessmen, and policymakers. Assessment of Chemical Exposures: Calculation Methods for Environmental Professionals addresses the expanding scope of exposure

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assessments in both the workplace and environment. It discusses the basics of gathering data and assessing exposure, including how to estimate exposure to chemicals using fundamental chemical engineering concepts. The book opens with a brief discussion on the history of exposure

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assessments and provides terms and nomenclature needed for communications between various disciplines involved in exposure assessments. The potential impact of chemical exposures on humans, the environment, and communities is discussed in detail The book also

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the text prepares the students to formulate material and energy balance theory on chemical process systems. It also demonstrates how to solve the main process-related problems that crop up in

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chemical engineering practice. The chapters are organized in a way that enables the students to acquire an in-depth understanding of the subject. The emphasis is given to the units and conversions,

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