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Altri autori (Persone)	SinnottR. K
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Note generali	Includes index.
Nota di contenuto	Part 1: Process Design -- Chapter 1 - Introduction to Design -- Chapter 2 - Process Flowsheet Development -- Chapter 3 - Utilities and Energy Efficient Design -- Chapter 4 - Process Simulation -- Chapter 5 - Instrumentation and Process Control -- Chapter 6 - Materials of Construction -- Chapter 7 - Capital Cost Estimating -- Chapter 8 - Estimating Revenues and Production Costs -- Chapter 9 - Economic Evaluation of Projects -- Chapter 10 - Safety and Loss Prevention -- Chapter 11 - General Site Considerations -- Chapter 12 - Optimization in Design -- Part 2: Plant Design -- Chapter 13 - Equipment Selection, Specification, and Design -- Chapter 14 - Design of Pressure Vessels -- Chapter 15 - Design of Reactors and Mixers -- Chapter 16 - Separation of Fluids -- Chapter 17 - Separation Columns (Distillation, Absorption, and Extraction) -- Chapter 18 - Specification and Design of Solids-Handling Equipment -- Chapter 19 - Heat-Transfer Equipment -- Chapter 20 - Transport and Storage of Fluids -- Appendices -- Subject Index.
Sommario/riassunto	Chemical Engineering Design, second edition, deals with the application of chemical engineering principles to the design of chemical

processes and equipment. Revised 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 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 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 calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors).
