

1. Record Nr.	UNINA9910728394403321
Autore	Nandagopal Nuggenhalli S.
Titolo	Chemical Engineering Principles and Applications / / by Nuggenhalli S. Nandagopal
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	9783031278792 9783031278785
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (510 pages)
Disciplina	660
Soggetti	Chemical engineering Chemistry, Technical Thermodynamics Heat engineering Heat - Transmission Mass transfer Industrial engineering Production engineering Materials Chemical Engineering Industrial Chemistry Engineering Thermodynamics, Heat and Mass Transfer Industrial and Production Engineering Materials Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1Mass and Energy Balances -- Chapter 2 Chemical Thermodynamics -- Chapter 3 Fluid Mechanics and Momentum Transfer -- Chapter 4 Heat Transfer -- Chapter 5 Mass Transfer -- Chapter 6 Chemical Reaction Engineering and Kinetics -- Chapter 7 Transport Phenomenon.
Sommario/riassunto	This text provides a clear and concise understanding of the principles and applications of chemical engineering using a rigorous, yet easy-to-

follow, presentation. The coverage is broad, and it includes all the relevant concepts such as mass and energy balances, mass transfer, chemical reaction engineering, and many more. Elucidation of the principles is further reinforced by examples and practice problems with detailed solutions. Firmly grounded in the fundamentals, the book maximizes readers' capacity to take on new problems and challenges in the field with confidence and conviction. Providing a ready reference and review of essential principles and their applications in chemical engineering, the book is ideal for undergraduate chemical engineering students, as well as practicing engineers preparing for the engineering license exams (FE and PE) in USA and abroad. Organized as a clear and coherent reference for those needing a quick review of fundamental concepts and applications; Adopts a comprehensive and practical writing style in presenting the essential broad topics of chemical engineering; Reinforces material with a wide spectrum and variety of illustrations as well as problems with solutions.
