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ISBN	1-5231-2475-X 3-11-031211-5
Descrizione fisica	1 online resource (424 pages) : illustrations
Collana	De Gruyter Graduate
Disciplina	660.2815
Soggetti	Chemical process control Process control Systems engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Preface -- Contents -- 1. Engineering projects -- 2. Thermodynamic models in process simulation -- 3. Working on a process -- 4. Heat exchangers -- 5. Distillation and absorption -- 6. Two liquid phases -- 7. Alternative separation processes -- 8. Fluid flow engines -- 9. Vessels and separators -- 10. Chemical reactions -- 11. Mechanical strength and material choice -- 12. Piping and measurement -- 13. Utilities and waste streams -- 14. Process safety -- Glossary -- List of Symbols -- Bibliography -- A. Some numbers to remember -- B. Pressure drop coefficients -- Index
Sommario/riassunto	This textbook provides a comprehensive introduction to chemical process engineering, linking the fundamental theory and concepts to the industrial day-to-day practice. It bridges the gap between chemical sciences and the practical chemical industry. It enables the reader to integrate fundamental knowledge of the basic disciplines, to understand the most important chemical processes, and to apply this knowledge to the practice in the industry.