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Titolo	Product, Process and Plant Design Using Subcritical and Supercritical Fluids for Industrial Application / / by Željko Knez, Christoph Lütge
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Descrizione fisica	1 online resource (262 pages)
Altri autori (Persone)	LutgeChristoph
Disciplina	660 338
Soggetti	Chemical engineering Industrial engineering Production engineering Chemistry, Technical Chemistry, Physical and theoretical Soft condensed matter Chemical processes Chemical Engineering Industrial and Production Engineering Industrial Chemistry Physical Chemistry Fluids Process Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- What are properties of Subcritical and Supercritical Fluids? -- Industrial scale applications, Physical-based processes -- Industrial scale applications: Reaction-based processes -- Design of high pressure plants for research, pilot and production scale -- Safety and control in high pressure plant design and operation -- Conclusion and future perspectives.
Sommario/riassunto	This book describes cutting edge technology using supercritical fluids

for the production of foodstuffs, medicals, and polymers. It illustrates the importance and use of basic data for design and operation at industrial scale units. The book's authors have several decades of experience of applied research on how to develop large scale industrial units. It provides readers complete insight in design and operation of industrial high pressure process plants. The book is written so it may be understood for people (with?) little or no background on high pressure process technology. It will provide information on how some foodstuffs, medicals, polymers are produced using high pressure technologies. The book demonstrates the importance of fundamental data, how to measure them and how to apply them to design industrial plants. At the same time, it also serves as a textbook for students.
