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Autore	Shapiro, Karl
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Altri autori (Persone)	Ballerini, Luigi
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Lingua di pubblicazione	Italiano
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Altri autori (Persone)	BartHans-Jorg <1954-> PilzStephan
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Industrial Scale Natural Products Extraction; Contents; Preface; List of Contributors; 1 Extraction of Natural Products from Plants - An Introduction; 1.1 Introduction; 1.2 Cultivation; 1.3 Extraction; 1.3.1 Solvents; 1.4 Extraction Techniques; 1.5 Purification; 1.5.1 Chromatography; 1.5.1.1 Adsorption Chromatography; 1.5.1.2 Partition Chromatography; 1.5.1.3 Ion Exchange Chromatography; 1.5.1.4 Gel Chromatography; 1.5.1.5 (Bio-) Affinity Chromatography; 1.5.2 Continuous Techniques; 1.5.2.1 True Moving Bed (TMB) Chromatography; 1.5.2.2 Simulated Moving Bed (SMB) Chromatography 1.5.2.3 Annular Chromatography1.5.2.4 Carrousel Adsorbers; References; 2 Solubility of Complex Natural and Pharmaceutical Substances; 2.1 Introduction; 2.2 Solubility Calculations; 2.2.1

Solubility of a Pure Solute in Solvents and Solvent Mixtures; 2.2.2 pH-Dependence of Solubility; 2.2.3 Solubility of Racemic Compounds; 2.3 Thermodynamic Modeling; 2.3.1 PC-SAFT Equation of State; 2.3.1.1 Hard-Chain Contribution A_{hc}; 2.3.1.2 Dispersion Contribution A_{disp}; 2.3.1.3 Association Contribution A_{assoc}; 2.3.2 Estimation of PC-SAFT Parameters; 2.4 Examples
 2.4.1 Solubility of Estradiol, Estrone, and Sitosterol in Different Solvents
 2.4.2 Solubility of Beta-carotene in Supercritical Carbon Dioxide; 2.4.3 Solubility of Paracetamol in Pure Solvents and Solvent Mixtures; 2.4.4 Solubility of dl-Methionine as Function of pH; 2.4.5 Solubility of Mandelic Acid Enantiomers and Racemic Mandelic Acid in Water; 2.5 Summary; Symbols; Latin Symbols; Greek Symbols and Special Characters; Superscripts; Subscripts; Appendix; Hard-chain Reference Contribution; Dispersion Contribution; Association Contribution; References; 3 Alternative Solvents in Plant Extraction
 3.1 Introduction
 3.2 Ionic Liquids in the Extraction of Natural Compounds from Plant and Fungi; 3.2.1 Characteristics of Ionic Liquids; 3.2.1.1 Physicochemical Properties; 3.2.1.2 Environmental and Safety Aspects; 3.2.2 Application of Ionic Liquids in Plant Extraction; 3.2.2.1 Application of ILs in Extraction; 3.2.2.2 Removal of Target Substance from Extract and Separation of Solvent from Spent Biomass; 3.2.2.3 Example 1: Extraction of Artemisinin; 3.2.2.4 Example 2: Extraction of Lignin; 3.3 Surfactants and Aqueous Two-Phase Systems in Plant Extraction
 3.3.1 Characteristics of Surfactant-Water Mixtures
 3.3.2 Behavior of Nonionic Surfactants in Aqueous Solution; 3.3.3 Micellar Extraction and Cloud Point Extraction; 3.3.4 Reversed Micellar Extraction; 3.3.5 Equilibrium Partition of Target Substances in Aqueous Surfactant Solutions; 3.3.6 Examples for the Use of Surfactants in Plant Extraction; 3.3.6.1 Plant Extraction Using Micellar and Cloud Point Extraction; 3.3.6.2 Plant Extraction Using Reverse Micelles; 3.4 Summary; References; 4 High Pressure Processing; 4.1 Introduction; 4.2 Supercritical Fluids; 4.2.1 General; 4.2.2 Physical Properties
 4.2.3 Solvent Power and Solubility

Sommario/riassunto

Covering the latest technologies in process engineering, this handbook and ready reference features high pressure processing, alternative solvents and processes, extraction technologies and biotransformations -- describing greener, more efficient and sustainable techniques. The result is an expert account of engineering details from lab-scale experiments to large-scale industrial design. The major focus is on the engineering aspects of extraction with organic and supercritical solvents, ionic liquids or surfactant solutions, and is supplemented by aspects of both up- and downstream process
