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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>Solid-Liquid Filtration and Separation Technology; Preface; Contents; 1 Solid Liquid Separation Technology; 1.1 Introduction; 1.2 The Filtration Process; 1.3 Filtration Fundamentals; 1.4 Sedimentation Processes; 1.5 Filter Media; 1.6 Pretreatment Techniques; 1.7 Clarification Filtration; 1.8 Sedimentation and Flotation; 1.9 Washing and Deliquoring; 1.10 Membrane Filtration; 1.11 Filtration Process Equipment and Calculations; 1.12 References; 1.13 Nomenclature; 2 Filtration Fundamentals; 2.1 Introduction; 2.2 Fluid Flow Through Porous Media; 2.3 Permeability; 2.4 Cake Filtration</p> <p>2.4.1 Mass Cake Deposited per Unit Area and Specific Resistance 2.4.2 Solid Concentration; 2.5 Forms of Cake Filtration Equation; 2.5.1 Constant Pressure Filtration; 2.5.2 Constant Rate Filtration; 2.5.3 Variable Pressure and Rate Filtration; 2.6 Effect of Pressure on Cake Filtration; 2.6.1 Constant Pressure Filtration; 2.6.2 Constant Rate Filtration; 2.6.3 Analysis of Flow Inside a Cake; 2.6.4 Variable Rate and Pressure Filtration for Compressible Cakes; 2.6.5 Simulation of Cake Filtration by Incremental Analysis; 2.7 Other Modes of Filtration; 2.8 Filtration with Non-Newtonian Fluids</p> <p>2.9 Laboratory Tests 2.9.1 Vacuum Filter Leaf; 2.9.2 Compression Permeability Cell; 2.9.3 Capillary Suction Time; 2.9.4 Other Laboratory Tests and Procedures; 2.10 Developments in Filtration Modelling and Understanding; 2.11 References; 2.12 Nomenclature; 3 Sedimentation Fundamentals; 3.1 Dilute Sedimentation; 3.2 Hindered Settling; 3.2.1 Voidage Functions; 3.2.2 Batch Settling: Kynch Theory; 3.2.3 Batch Flux; 3.2.4 Use of Batch Flux Curve for local concentration; 3.3 Sedimentation with significant compression effects; 3.3.1 Stirring and channels during sedimentation</p> <p>3.4 Settling Under Inclined Surfaces 3.4.1 Nakamura-Kuroda Equation; 3.4.2 Grashof Number and Sedimentation Reynolds Number; 3.5 References; 3.6 Nomenclature; 4 Filter Media; 4.1 Introduction; 4.2 Woven Cloths; 4.2.1 Monofilaments and Multifilaments; 4.3 Cloth Selection; 4.3.1 Effect of Yarn Type and Weave Pattern; 4.3.2 Criteria of Choice; 4.4 Operational Aspects of Woven Media in Filters; 4.4.1 Loading of Yams with Solids; 4.4.2 Bacterial Growths; 4.4.3 Precipitation from Solution; 4.4.4 Inadequate Drainage; 4.4.5 Critical Concentration; 4.4.6 Critical Pressure</p> <p>4.4.7 Classification of Particles 4.4.8 Effect of Gas Bubbles; 4.4.9 Evaporation Effects; 4.4.10 Effect of Fabric Construction; 4.4.11 Effect of Cloth Underdrainage; 4.5 Aspects of the Cloth Selection and Performance; 4.5.1 Cloth Shrinkage; 4.5.2 Cloth Stretching; 4.5.3 Filter Cake Release; 4.5.4 Cloth Structural Effects; 4.5.5 Cloth Cleaning Process; 4.6 Nonwoven Filter Media; 4.7 Mathematical Models of Flow Through Filter Media; 4.7.1 Permeability of Clean Media; 4.7.2 Particle-Stopping Power; 4.7.3 Nonwoven, Random Fibre Media; 4.7.4 Woven Media; 4.7.4.1 Multifilament Cloth Permeability 4.7.4.2 Monofilament Cloth Permeability</p>
Sommario/riassunto	<p>A valuable presentation of theoretical and practical information in the area of liquid-solid filtration. The development of theoretical models is highlighted with practical design data and problem-related examples. Modern trends, e.g., membrane systems, are reported together with the fundamental aspects of particulate technology. The increasing interest in pollution control and environmental protection provides an</p>

expansive market for this book. Chemical engineers, chemists, physicists, water treatment/sewage engineers, civil engineers and all those concerned with filtration and pollution will
