1. Record Nr. UNINA9910462289103321 Autore Howe Kerry J Titolo Principles of water treatment [[electronic resource] /] / Kerry J. Howe ... [et al.] Hoboken,: Wiley, 2012 Pubbl/distr/stampa **ISBN** 1-5231-0989-0 1-118-30970-7 1-283-74109-1 1-118-30967-7 Edizione [[Third edition, Student edition.]] 1 online resource (xvii, 654 pages): illustrations Descrizione fisica Disciplina 628.1/62 Water - Purification Soggetti Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Machine generated contents note: PrefaceAcknowledgmentsChapter 1 Introduction1-1 The Importance of Principles1-2 The Importance of SustainabilityReferencesChapter 2 Water Quality and Public Health2-1 Relationship between Water Quality and Public Health2-2 Source Waters for Municipal Drinking Water Systems2-3 Regulations of Water Treatment in the United States2-4 Evolving Trends and Challenges in Drinking Water Treatment2-5 Summary and Study GuideReferencesChapter 3 Process Selection3-1 Process Selection Based on Contaminant Properties3-2 Other Considerations in Process Selection3-4 Design and Selection of Process Trains3-5 Summary and Study GuideHomework ProblemsReferencesChapter 4 Fundamental Principles of Environmental Engineering4-1 Units of Expression for Chemical Concentrations4-2 Chemical Equilibrium4-3 Chemical Kinetics4-4 Reactions Used in Water Treatment4-5 Mass Balance Analysis4-6 Introduction to Reactors and Reactor Analysis4-7 Reactions in Batch Reactors4-8 Hydraulic Characteristics of Ideal Flow Reactors4-9 Reactions in Ideal Flow Reactors4-10 Measuring the

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"An abridgement of the reference work Water Treatment, 3rd Edition by the same team of authors, this Student Edition maintains the same quality writing, illustrations, and worked examples as the larger book, but in a more manageable and inexpensive format. All topics are discussed from the ground up, from the basic fundamentals of water chemistry, to filtration, to the design of treatment trains. Designed specifically for civil or environmental engineering students, this edition includes end-of-chapter review questions, chapter summaries, a new glossary, and a solutions manual available online"--