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Sinopsis

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Equilibrium inorganic chemistry underlies the composition and properties of the aquatic environment and provides a sound basis for understanding both natural geochemical processes and the behaviour of inorganic pollutants in the environment. Designed for readers having basic chemical and mathematical knowledge, this book includes material and examples suitable for undergraduate students in the early stages of chemistry, environmental science, geology, irrigation science and oceanography courses. Aquatic Environmental Chemistry covers the composition and underlying properties of both freshwater and marine systems and, within this framework, explains the effects of acidity, complexation, oxidation and reduction processes, and sedimentation. The format adopted for the book consists of two parallel columns. The inner column is the main body of the book and can be read on its own. The outer column is a source of useful secondary material where comments on the main text, explanations of unusual terms and guidance through mathematical steps are to be found. A wide range of examples to explain the behaviour of inorganic species in freshwater and marine systems are used throughout, making this clear and progressive text an invaluable introduction to equilibrium chemistry in solution.