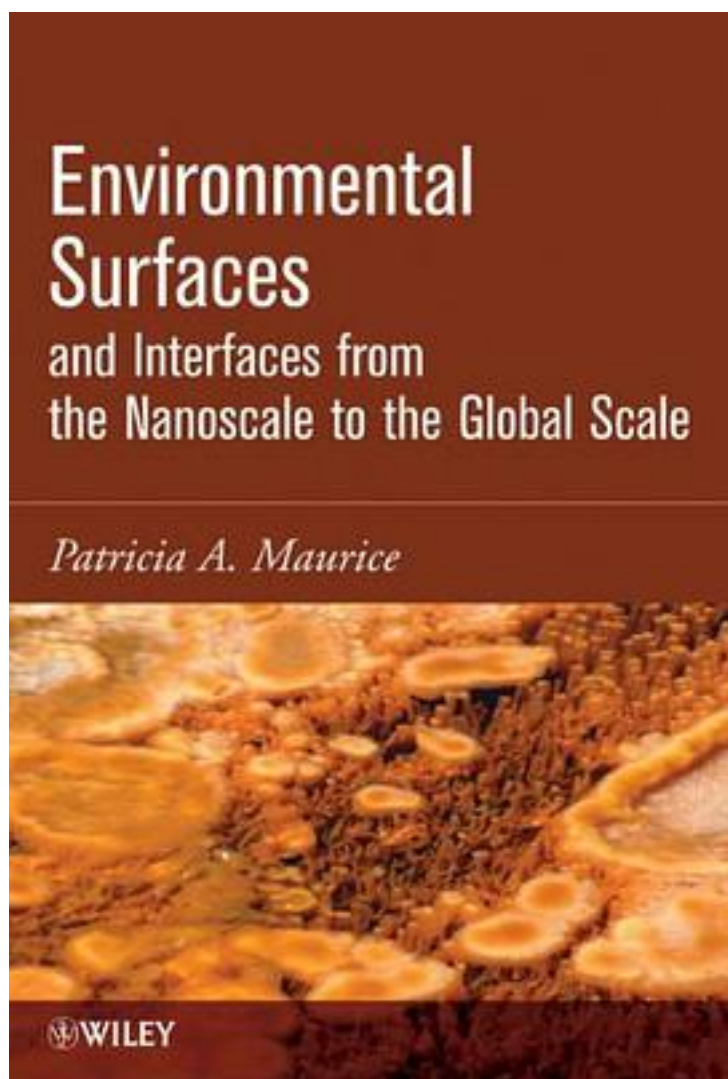


# Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale



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著者:Maurice, Patricia

出版者:

出版时间:2009-6

装帧:

isbn:9780470400364

An advanced exploration of water-rock interactions Based on the author's fifteen years of teaching and tried-and-tested experiences in the classroom, here is a comprehensive exploration of water-rock interactions. Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale covers aspects ranging from the theory of charged particle surfaces to how minerals grow and dissolve to new frontiers in W-R interactions such as nanoparticles, geomicrobiology, and climate change. Providing basic conceptual understanding along with more complex subject matter, Professor Patricia Maurice encourages students to look beyond the text to ongoing research in the field. Designed to engage the learner, the book features: Numerous case studies to contextualize concepts Practice and thought questions at the end of each chapter Broad coverage from basic theory to cutting-edge topics such as nanotechnology Both basic and applied science This text goes beyond W-R interactions to touch on a broad range of environmental disciplines. While written for advanced undergraduate and graduate students primarily in geochemistry and soil chemistry, Environmental Surfaces and Interfaces from the Nanoscale to the Global Scale will serve the needs of such diverse fields as environmental engineering, hydrogeology, physics, biology, and environmental chemistry.

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