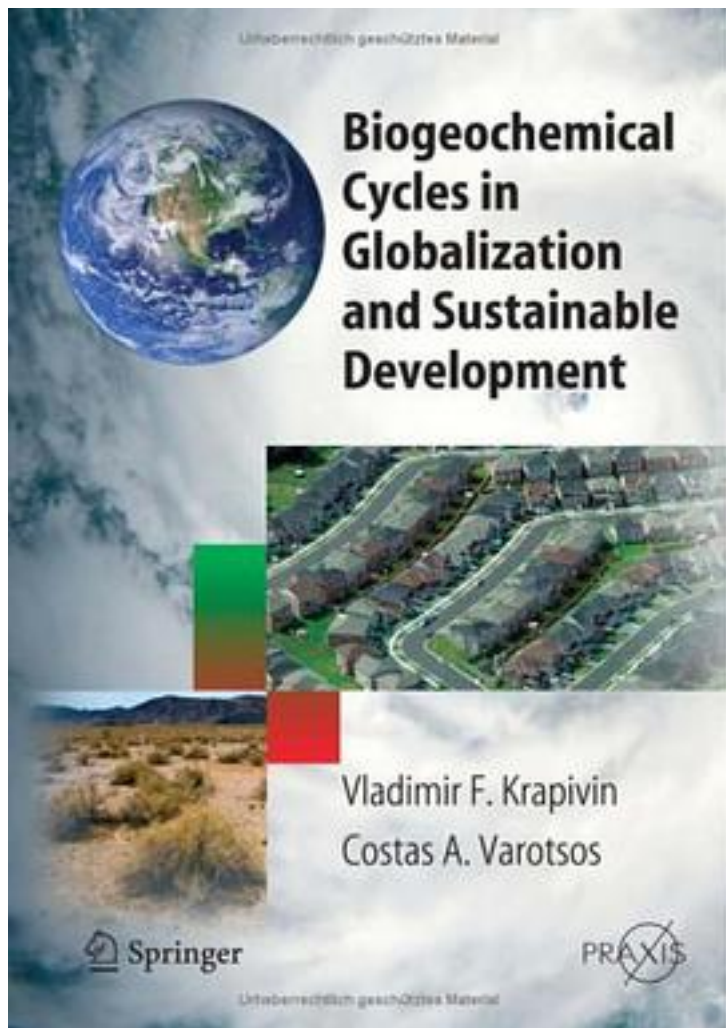


Biogeochemical Cycles in Globalization and Sustainable Development



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出版者:

出版时间:

装帧:

isbn:9783540754398

This book opens new approach to the study of global environmental changes having unfavourable character for peoples and other living systems. Main advantage of this book consists in the accumulation of knowledge from different sciences to parameterize global biogeochemical cycles in the context of globalization and sustainable development. Basic global problems of the nature-society system dynamics have been considered and the key problems of ensuring its sustainable development have been discussed. An analysis has been made of the present trend in changing ecological systems and characteristics of the present global ecodynamics have been estimated. The emphasis has been placed on the accomplishment of global geoinformation monitoring, which could provide a reliable control of the environmental processes development with further obtaining prognostic estimates of consequences of realization of anthropogenic projects. A new approach to the nature-society system numerical modelling has been proposed and demonstrative results have been given of modelling the dynamics of this system (TM)s characteristics in cases of realization of some scenarios of anthropogenic impact on the biogeochemical cycles. The importance and the need has been emphasized of development of adaptive algorithms of monitoring data processing which make it possible to reduce the economic expenses on its accomplishment and raise the reliability of the obtained estimates of the global ecodynamics characteristics. Perspective approaches have been suggested for the development of technology to estimate the risk of realization of decisions on ecosystems (TM) management. The realization of this approach allows integration within a complex structure of all international and national means of environmental monitoring and provides a tool for objective evaluation of the environmental quality. The main purpose of this book is to develop an universal information technology to estimate the state of environmental subsystems functioning under various climatic and anthropogenic conditions and to assess the dependence of global biogeochemical cycles on the globalization processes. Applied mathematicians, geophysicists, hydrologists, socio-economists, statesmen and other researchers of global change will find a wealth of information and ideas in this book.

作者介绍:

目录:

[Biogeochemical Cycles in Globalization and Sustainable Development_下载链接1_](#)

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