

Sustainable Practices in Geoenvironmental Engineering, Second Edition

Raymond N. Yong, Catherine N. Mulligan, Masaharu Fukue

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In the seven years since the publication of the first edition of Sustainable Practices in Geoenvironmental Engineering, the combination of population growth and increased exploitation of renewable and nonrenewable natural resources has added increased stresses on the quality and health of the geoenvironment. This is especially true when viewed in the context of the growing demand for food and shelter, energy and mineral resources, and their resultant effects on the natural capital of the geoenvironment. Completely revised and updated, this second edition of a bestseller introduces and discusses the concept of "stressors" and their impacts on the geoenvironment.

See What's New in the Second Edition:

- Clear definition of the geoenvironment
- New tools and remediation technologies, new management methods for geohazards, and enhanced coverage of social and economic sustainability
- Innovative approaches and techniques for reaching geoenvironmental sustainability
- More detail on treatment technologies, both in situ and ex situ
- Discussion on the mitigation of geodisasters
- Additional sections to discuss sustainability assessment protocols
- Updated information on models for prediction of contaminant behavior

The authors explore the technologies that take into account targets, exposure routes (if applicable), future land use, acceptable risks, legislation, and resultant emissions/discharges in establishing the criteria and tools for evaluating technologies and protocols for environmental management of the impacted land. They then discuss how to choose the correct ones to use in different situations to protect the quality and health of natural resource and capital of the geoenvironment and ensure that these geoenvironmental natural resources and capital remain available for future generations and to develop innovative and sustainable techniques to make land more stable and safer.



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Todd Jacob:

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