



Sustainable Practices in Geoenvironmental Engineering, Second Edition

By 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 non-renewable 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:

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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Editorial ReviewAbout the Author

Dr. Raymond N. Yong is the William Scott Professor Emeritus at McGill University, Canada, and Emeritus Professor at the University of Wales Cardiff (Cardiff University), UK. He has authored and co-authored eleven other textbooks, over five hundred refereed papers in the various journals in the disciplines of Geoenvironmental Engineering and Earth Science, and holds 52 patents. He is a Fellow of the Royal Society (Canada), and a Chevalier de l'Ordre National du Québec. He and his students were amongst the early researchers in Geoenvironmental Engineering engaged in research on the physico-chemical properties and behaviour of soils, their use in buffer/barriers for HLW (high-level radioactive waste) and HSW (hazardous solid waste) containment and isolation, and restoration/remediation of contaminated sites. He and his colleagues are currently engaged in research on Geoenvironmental sustainability. **Dr. Catherine N. Mulligan** holds a Concordia Research Chair in Geoenvironmental Sustainability (Tier I) and is Full Professor and Associate Dean, Research and Graduate Studies of the Faculty of Engineering and Computer Science of Concordia University, Canada. She has authored more than 80 refereed papers in various journals, authored, co-edited or co-authored five other books, holds three patents and has supervised to completion more than 40 graduate students. She is the Director of the new Concordia Institute of Water, Energy and Sustainable Systems. The new Institute trains students in sustainable development practices and performs research into new systems, technologies and solutions for environmental sustainability. **Dr. Masaharu Fukue** is a Full Professor at Tokai University, Japan. He has studied and taught geoenvironmental engineering and geotechnical engineering for 36 years, since 1978, in Marine Science and Technology, Tokai University. He has co-authored two other textbooks, over one hundred refereed papers in various journals, and holds 6 patents. He has recently established the Japanese Geotechnical Association for Housing Disaster Prevention to apply the theory and practice of innovative microbial cementing process (one of his patented process). In addition, another of his Japanese patents (re-suspension technique for sediment rehabilitation) is currently being applied in Fukushima, Japan, in the aftermath of the March, 2011 East-Japan great earthquake and accompanying tsunami. Both projects demonstrate the interdependencies between geoenvironmental engineering and geotechnical engineering, and the need to apply sustainability principles in the practice of both disciplines.

From reader reviews:

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