

# Geoenvironmental Engineering

## Contaminated Soils, Pollutant Fate, and Mitigation

English  
Edition  
1995  
2000

Raymond N. Yong

# Raymond Nen Yong

**C Cleary**



## **Raymond Nen Yong :**

**Consolidation of Soils** Frank C. Townsend, 1986      *Geoenvironmental Engineering* Raymond N. Yong, 2000-09-25 Why do some contaminants remain in soils indefinitely How much of a threat do they pose to human health or the environment The need for effective and economic site decontamination arises daily *Geoenvironmental Engineering Contaminated Soils Pollutant Fate and Mitigation* discusses why soils remain contaminated focusing on the development of the factors properties characteristics and parameters of soils and individual contaminants Subjects covered include the basic properties of soils affecting accumulation of contaminants long term retention of contaminants and their fate including the development of intermediate products The author emphasizes the factors interactions and mechanisms important in the bonding and partitioning process He provides the groundwork for determining the fate of pollutants in soils and sediments and their mitigation *Geoenvironmental Engineering Contaminated Soils Pollutant Fate and Mitigation* focuses on why soils and sediments remain contaminated not how they became contaminated in the first place You will understand why specific contaminants remain in soils and sediments how much of a threat they pose to human health and the environment and what steps to take for mitigation With this information you can determine the extent of the contamination of soils and sediments how long they will remain a threat and what methods to use for their remediation      **Geologic Disposal of Low- and Intermediate-Level Radioactive Waste** Roland Pusch, Raymond N. Yong, Masashi Nakano, 2017-04-07 This book will address concepts and techniques for preparation and disposal of low LLW and intermediate level ILW radioactive waste from the nuclear industry the weapons industry university labs research institutes and from the commercial industry It will aid decision makers in finding optimal technical economical solutions including how site investigations design construction identification and selection of construction materials clay and concrete and monitoring can be made It will also examine techniques for isolating soil and rock contaminated by leaking nuclear plants and from damaged nuclear reactors such as those at the Fukushima and Chernobyl nuclear plants

**Sustainable Practices in Geoenvironmental Engineering, Second Edition** Raymond N. Yong, Catherine N. Mulligan, Masaharu Fukue, 2014-09-25 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 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

#### **Environmental Soil Properties and Behaviour**

Raymond N. Yong, Masashi Nakano, Roland Pusch, 2012-03-05 From bridges and tunnels to nuclear waste repositories structures require that soils maintain their design engineering properties if the structures are to reach their projected life spans The same is true for earth dams levees buffers barriers for landfills and other structures that use soils as engineered materials Yet soil a natural resource continues to change as a result of natural and anthropogenic stresses As the discipline of soil properties and behaviours matures new tools and techniques are making it possible to study these properties and behaviours in more depth What Happens to Soil Under Weathering Aging and Chemical Stress Environmental Soil Properties and Behaviour examines changes in soil properties and behaviour caused by short and long term stresses from anthropogenic activities and environmental forces Introducing new concepts of soil behaviour soil maturation and soil functionality it integrates soil physics soil chemistry and soil mechanics as vital factors in soil engineering The book focuses on environmental soil behaviour with particular attention to two main inter related groups of soil environment issues The first is the use of soil as an environmental tool for management and containment of toxic and hazardous waste materials The second is the impact of ageing and weathering processes and soil contamination on the properties and behaviour of soils especially those used in geotechnical and geoenvironmental engineering projects A Transdisciplinary Look at Soil Changing Processes To determine short and long term soil quality and soil functionality the authors emphasize the need to be aware of the nature of the stressors involved as well as the kinds of soil changing processes that are evoked This book takes a first step toward a much needed transdisciplinary effort to develop a broader and deeper understanding of what happens to soil and how we can determine and quantify the effect of biogeochemical processes It offers a timely resource for the study of soil properties and behaviours effects of environmental changes and remediation of contaminated soil

#### **Geoenvironmental Engineering**

Raymond N. Yong, Hywel R. Thomas, 2004-06-30 This new book contains the proceedings of the 4th Geoenvironmental Engineering Conference organised by the British Geotechnical Association and Cardiff University's School of Engineering held in Stratford Upon Avon in June 2004 The theme of the conference was Integrated Management of Groundwater and Contaminated Land This book is a compilation of peer reviewed papers grouped according to the sessions under which they

were presented at the conference Issues associated with Geoenvironmental Engineering continue to be a major preoccupation for Governments public and private organisations and the general community around the world The conference brought together people working in industry academia and the public sector to discuss the latest ideas and developments in Geoenvironmental Engineering and related fields The papers in these proceedings reflect the work being undertaken across the discipline This volume is an indispensable source of information on current research and practice in the field of integrated management of groundwater and contaminated land *Laboratory Shear Strength of Soil* Raymond N. Yong, ASTM Committee D-18 on Soil and Rock for Engineering Purposes, 1981 **Sustainable Practices in**

**Geoenvironmental Engineering** Catherine N. Mulligan, Masaharu Fukue, Raymond N. Yong, 2025-02-21 This third edition focuses on the application of geoenvironmental engineering procedures and practices to mitigate and reduce the adverse impacts on the geoenvironment from anthropogenic sources including emerging contaminants such as micro and nanoplastics pharmaceuticals and fire retarding chemicals Thoroughly updated with three new chapters and extensive use of case studies to showcase examples of sustainable practices this new edition discusses many activities that are still generating geoenvironmental impacts that are adverse to the quality and health of the geoenvironment It includes new tools and procedures that have been developed to evaluate and minimize adverse impacts This new edition Discusses the impacts of climate change and potential mitigation Addresses emerging contaminants of concern Introduces an entirely new chapter on sustainable nitrogen and carbon cycles Includes new case studies like the Fukushima case study on sediments and microbial induced precipitation processes Provides new practices and tools for sustainability to evaluate and to minimize adverse impacts Discusses the aspects of social sustainability and cultural aspects of the geoenvironment This book is intended for professionals researchers academics senior undergraduate students and graduate students in geotechnical engineering geoenvironmental engineering site remediation sustainable development and earth sciences **Containment of**

**High-Level Radioactive and Hazardous Solid Wastes with Clay Barriers** Raymond N. Yong, Roland Pusch, Masashi Nakano, 2010-05-31 One of the principal objections to or problems with the use of nuclear fuel is that a proven method for safe disposal of spent nuclear fuel has yet to be established The central focus of most schemes underway to dispose of these high level radioactive wastes relies on clay based buffers and barriers to isolate spent fuel canisters in borehole **The**

**National Union Catalogs, 1963- , 1964** **Natural Attenuation of Contaminants in Soils** Raymond N. Yong, Catherine N. Mulligan, 2003-12-15 Natural attenuation has become widely recognized as an effective and low cost alternative to more expensive engineered remediation However there are uncertainties about natural attenuation s long term effects and risks to the environment There is a particular need to develop a high level of understanding of the natural attenuation proces

Natural and Enhanced Attenuation of Contaminants in Soils, Second Edition Raymond N. Yong, Catherine N. Mulligan, 2019-04-11 Natural attenuation has become an effective and low cost alternative to more expensive engineered

remediation This new edition updates the principles and fundamentals of natural attenuation of contaminants with a broader view of the field It includes new methods for evaluating natural attenuation mechanisms and microbial activity at the lab and field scales Case studies actual treatments and protocols theoretical processes case studies numerical models and legal aspects in the natural attenuation of organic and inorganic contaminants are examined Challenges and future directions for the implementation of natural attenuation and enhanced remediation techniques are also considered *National Union Catalog* ,1982 Includes entries for maps and atlases *Geological Survey Bulletin* ,1965 **Bibliography of North American Geology** Geological Survey (U.S.),1965 *Bibliography of North American Geology* ,1965 1919 28 cumulation includes material previously issued in the 1919 20 1935 36 issues and also material not published separately for 1927 28 1929 39 cumulation includes material previously issued in the 1929 30 1935 36 issues and also material for 1937 39 not published separately *Selected Library Acquisitions* United States. Department of Transportation, *National Union Catalog* Library of Congress,1979 Includes entries for maps and atlases *The Cumulative Book Index* ,1988 A world list of books in the English language **Index to Marquis who's who publications** ,1994

## Enjoying the Melody of Appearance: An Mental Symphony within **Raymond Nen Yong**

In a world taken by screens and the ceaseless chatter of instantaneous transmission, the melodic splendor and emotional symphony developed by the prepared word usually disappear into the back ground, eclipsed by the relentless noise and distractions that permeate our lives. However, situated within the pages of **Raymond Nen Yong** a stunning fictional treasure overflowing with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, this charming masterpiece conducts viewers on a psychological trip, skillfully unraveling the hidden songs and profound influence resonating within each cautiously constructed phrase. Within the depths with this poignant review, we shall examine the book is main harmonies, analyze their enthralling publishing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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