



# Handbook of Environmental Degradation of Materials

By Myer Kutz

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## Handbook of Environmental Degradation of Materials By Myer Kutz

Nothing stays the same for ever. The environmental degradation and corrosion of materials is inevitable and affects most aspects of life. In industrial settings, this inescapable fact has very significant financial, safety and environmental implications.

*The Handbook of Environmental Degradation of Materials* explains how to measure, analyse, and control environmental degradation for a wide range of industrial materials including metals, polymers, ceramics, concrete, wood and textiles exposed to environmental factors such as weather, seawater, and fire. Divided into sections which deal with analysis, types of degradation, protection and surface engineering respectively, the reader is introduced to the wide variety of environmental effects and what can be done to control them. The expert contributors to this book provide a wealth of insider knowledge and engineering knowhow, complementing their explanations and advice with Case Studies from areas such as pipelines, tankers, packaging and chemical processing equipment ensures that the reader understands the practical measures that can be put in place to save money, lives and the environment.

- The Handbook's broad scope introduces the reader to the effects of environmental degradation on a wide range of materials, including metals, plastics, concrete, wood and textiles
- For each type of material, the book describes the kind of degradation that effects it and how best to protect it
- Case Studies show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects

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### **Editorial Review**

#### About the Author

Myer Kutz has headed his own firm, Myer Kutz Associates, Inc., since 1990. For the past several years, he has focused on writing and on developing engineering handbooks on a wide range of technical topics, such as mechanical, materials, biomedical, transportation, and environmentally conscious engineering, for a number of publishers, including Wiley, McGraw-Hill, and Elsevier. Earlier, his firm supplied consulting services to a large client roster, including Fortune 500 companies, scientific societies, and large and small publishers. The firm published two major multi-client studies, "The Changing Landscape for College Publishing" and "The Developing Worlds of Personalized Information." Before starting his independent consultancy, Kutz held a number of positions at Wiley, including acquisitions editor, director of electronic publishing, and vice president for scientific and technical publishing. He has been a trustee of the Online Computer Library Center (OCLC) and chaired committees of the American Society of Mechanical Engineers and the Association of American Publishers. He holds engineering degrees from MIT and RPI, served as an officer in the US Army Ordnance Corp, and worked in the aerospace industry on the Apollo project. In addition to his edited reference works, he is the author of nine books, including Temperature Control, published by Wiley, Rockefeller Power, published by Simon & Schuster, the novel, Midtown North, published under the name Mike Curtis, and most recently the independently published novel, In the Grip. He is the editor of the Bulletin of the Professional Scholarly Publishing Division of the Association of American Publishers and writes The Scholarly Publishing Scene column for the magazine Against the Grain. He lives in Delmar, NY, with his wife, Arlene.

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