Geomembranes are flexible polymeric sheets which are used as relatively impermeable liners to contain liquid and vapour. With uses ranging from canal liners to hazard waste landfills, they are used extensively in a range of industries such as water conservation, mining, construction and waste management. A Guide to Polymeric Geomembranes: A Practical Approach offers an informed overview of the developments in this field and includes:

- Detailed discussion of the major geomembrane types
- Manufacturing methods
- Key performance properties
- Industrial applications
- Testing and chemical resistance of geomembranes
- Failure analysis methodology

Written by a polymer research specialist with more than fifteen years experience in industry, this practical handbook covers the manufacture, use, installation, durability, lifespan and performance of geomembranes. It covers all the information required to enable the reader to select the most suitable geomembrane material for the job.
This book is a useful reference for engineers and professionals in industry, environmental consultants, polymer and materials scientists, and government agencies and policy makers. It is of particular interest to those designing, commissioning and operating waste management sites, landfills, mine leachate ponds and water containment facilities.

**ABOUT THE AUTHOR**

**Dr. John Scheirs** is a polymer technologist with ExcelPlas Geomembrane Testing Services. He specializes in geomembrane properties, polymer selection, failure analysis and testing and evaluation of geomembrane materials. He has extensive experience in durability testing of many polymeric geomembranes, in addition to routine mechanical analysis, forensic investigation and weld testing of geomembranes and polymeric liners. He has worked widely with HDPE, fPP and PVC membranes. Previously he worked with Exxon-Mobil on the stabilization and long-term durability of HDPE polymers.

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