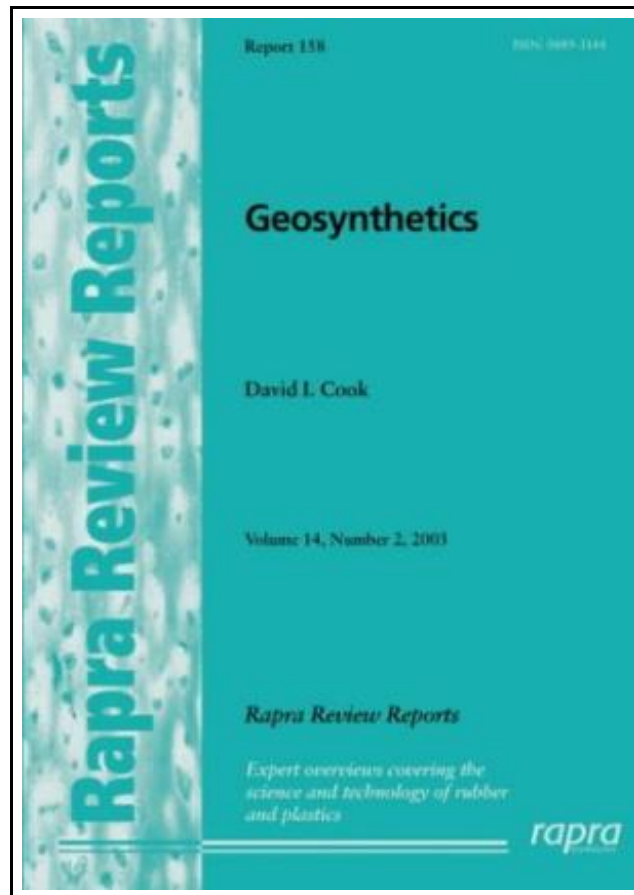


Geosynthetics



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Reviews

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(Hillard Macejkovic)

GEOSYNTHETICS



Smithers Rapra Technology. Paperback. Book Condition: New. Paperback. 132 pages. Dimensions: 11.7in. x 8.3in. x 0.3in. Geosynthetics are sheet polymeric materials used in civil engineering. They have been used since the 1970s in geotechnical (soil) structures for functions such as separation, reinforcement, drainage, filtration, liquid containment and as gas barriers. In practice this has included applications as diverse as reinforcement in the walls of the Pentagon, reservoir liners, canal liners, road reinforcement, retaining walls, sports fields, dams, landfill liners, embankment stabilisation, tree containers, chemical tank liners, and as base and roofing membranes for new buildings. There is an increasing trend to use recyclates in geosynthetics, particularly PET from bottle recovery. Geosynthetics often play critical roles in civil engineering and it is important that the materials in use can withstand the physical and chemical pressures of the environment. These range from resistance to leachates from landfill to resistance to root damage in soil liners, as well as standard properties such as resistance to creep, oxidation and UV light, and tensile strength. This has resulted in sets of test standards being developed by the EU, ISO, BSI and ASTM. Dr Cook is an expert in the testing of geosynthetics and has covered this area in the review. There are several main categories of geosynthetics: geotextiles, geomembranes, geosynthetic clay liners, geogrids and geonets. This review discusses the polymers used in each type, production methods, test methods and applications. Geotextiles are permeable fabrics comprising around 75 of all geosynthetics. Globally, 1, 400 million square metres are used each year and the trend in consumption is upwards. . Polypropylene comprises the bulk of this with polyester as the second most commonly used material, Polymer properties and economics decide on material choice. Natural fibres are being used where durability is less important. Geomembranes are thin flexible sheets with...



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