



# **Durability 2000: Accelerated and Outdoor Weathering Testing (Astm Special Technical Publication// Stp)**

*et al Astm Committee G3 on Weathering and Durability (Corporate Author)*

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This comprehensive new volume examines the latest advances and innovations in weathering and durability testing. 13 peer-reviewed papers are divided into these sections: Material Characterization--4 papers explore the characteristics of materials that have been subjected to exposure tests. They cover image analysis techniques for a variety of materials that can significantly improve the repeatability and reproducibility of appearance characterization and attributes; and monochromatic and polychromatic techniques for determining activation spectrum. Developments in Exposure Tests--1 paper demonstrates the varying types and rates of degradation using the same type of test in different climates. 3 papers describe stress analysis, test design, and exposure results for accelerated tests designed to simulate interior light environments. Another discusses developments in techniques used to control irradiance, temperature, and humidity for more consistent exposure conditions. The last paper in this section explores the development of a laboratory accelerated test based on freeze/thaw immersion that has been successfully used to estimate durability of building stone. Service Life Prediction--3 papers examine the prediction of service life, the ultimate goal of any exposure program, which is contingent upon reliable measurements of the exposure stresses that can affect durability. They explore the use of a computer model that can determine the spectral power distribution of daylight in many different locations, and thermal load and other construction and design parameters to determine the durability of a variety of roofing materials. The last paper shows how characterization of the properties of a glass and its response to accelerated environmental stresses can be used to determine that a sculpture made of the glass will remain relatively unchanged for at least 20 years.

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