



Maintenance and Safety of Aging Infrastructure: Volume 10: Structures and Infrastructures Book Series (Hardback)

By -

Taylor Francis Ltd, United Kingdom, 2014. Hardback. Book Condition: New. 250 x 182 mm. Language: English . Brand New Book. This book presents the latest research findings in the field of maintenance and safety of aging infrastructure. The invited contributions provide an overview of the use of advanced computational and/or experimental techniques in damage and vulnerability assessment as well as maintenance and retrofitting of aging structures and infrastructures such as buildings, bridges, lifelines and ships. Cost-efficient maintenance and management of civil infrastructure requires balanced consideration of both structural performance and the total cost accrued over the entire life-cycle considering uncertainties. In this context, major topics treated in this book include aging structures, climate adaptation, climate change, corrosion, cost, damage assessment, decision making, extreme events, fatigue life, hazards, hazard mitigation, inspection, life-cycle performance, maintenance, management, NDT methods, optimization, redundancy, reliability, repair, retrofit, risk, robustness, resilience, safety, stochastic control, structural health monitoring, sustainability, uncertainties and vulnerability. Applications include bridges, buildings, dams, marine structures, pavements, power distribution poles, offshore platforms, stadiums and transportation networks. This up-to-date overview of the field of maintenance and safety of aging infrastructure makes this book a must-have reference work for those involved with structures and infrastructures, including students,...



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