

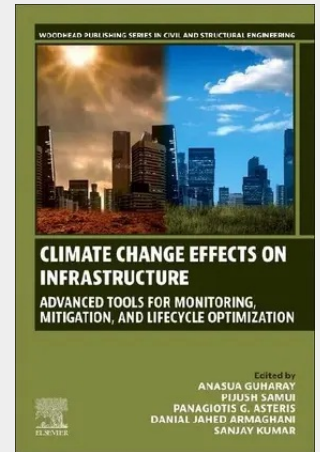
Climate Change Effects on Infrastructure

Advanced Tools for Monitoring, Mitigation, and Lifecycle Optimization

The design of structures and infrastructure facilities has typically assumed a future climate that is much the same as today's. However, a changing climate and the resulting more extreme weather events mean those climate bands are becoming outdated, leaving infrastructure operating outside or at the limit of its tolerance levels.

With its evaluation of a host of assets in the built environment, *Climate Change Effects on Infrastructure: Advanced Tools for Monitoring, Mitigation, and Lifecycle Optimization* instructs readers how to assess and predict structural vulnerabilities resulting from climate change as well as ensuing hazard patterns using mathematical tools and data-driven models. The carefully compiled contributions also comprehensively survey the latest technological developments and the most useful approaches to counteract and/or prevent damage and connected socio-economic risks.

The volume proves to be an even more invaluable resource thanks to its real-world application examples that spotlight the urgency of further investigations into the implementation of cost-effective and sustainable adaptive measures that can enhance or extend the reliable performance, durability, and efficiency of structures and infrastructure systems throughout their entire lifecycle.



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