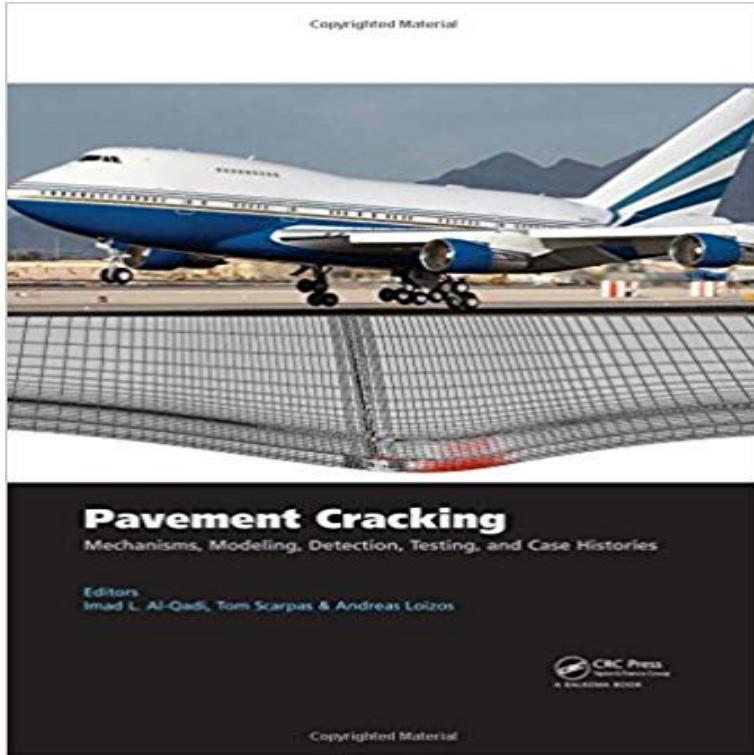


Pavement Cracking: Mechanisms, Modeling, Detection, Testing and Case Histories



Internationally, much attention is given to causes, prevention, and rehabilitation of cracking in concrete, flexible, and composite pavements. The Sixth RILEM International Conference on Cracking in Pavements (Chicago, June 16-18, 2008) provided a forum for discussion of recent developments and research results. This book is a collection of papers from the Conference, and includes contributions on a variety of topics:- Modeling of the initiation and propagation of pavement cracking- Top-down and bottom-up fatigue cracking mechanisms- Laboratory testing techniques and evaluation effectiveness- Construction approaches and their relation to crack development- Crack surveys and nondestructive evaluation- In-situ experimental studies: field construction and rehabilitation techniques to inhibit pavement cracking- Performance of crack preventative techniques and pavement service life prediction- Interlay system effectiveness- Pavement cracking evaluation using accelerated pavement testing- Hot-mix asphalt overlay characterization- Pavement interface modeling and testing- Laboratory and field model validation- Low-temperature cracking mechanisms and field studies- Cracking in semi-rigid and stabilized pavement layers- Analytical and experimental investigations of concrete joints- White topping performance

Pavement Cracking: Mechanisms, Modeling, Detection, Testing, and Case Histories is particularly of interest to academics, researchers, and practitioners involved in pavement mechanics and performance.

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