



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

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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
- Interlayer 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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