



# **Sustainable Highways, Pavements and Materials: An Introduction**

*Kasthurirangan Gopalakrishnan*

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The worldwide increase in emphasis on sustainability and the environment necessitates a holistic examination of how highways and pavements can be designed, constructed, operated, maintained, preserved and recycled in a more economically, environmentally, and socially sound manner. Rapidly depleting natural resources, anthropogenic climate change implications and increasing financial pressures are some crucial challenges today's and tomorrow's transportation engineers are faced with. A better understanding of the art and science of sustainable highway and pavement engineering will equip them to effect positive economic, environmental, and social change while balancing competing interests. Sustainable Highways, Pavements and Materials provides introductory and yet up-to-date coverage of latest technologies, practices and initiatives related to the contemporary application of sustainability principles during all phases of a pavement's life cycle. Researchers, practitioners, educators and students with an interest in transportation infrastructure will find this book a practical reference that explores various aspects of sustainable highways and pavements, including materials, design, construction, and life-cycle analysis. Important Topics Covered:

- Sustainable Transportation Initiatives
- Sustainability Impacts of Highways and Pavements
- Environmental Life-Cycle Assessment (LCA) of Pavements
- Recycled Materials and Beneficial Reuse of Industrial By-Products
- Long-Life, Permeable, Quiet and Cool Pavements
- Green Highway Rating Systems
- Emerging Sustainable Pavement Materials and Technologies

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