



Sustainable Highways, Pavements and Materials: An Introduction

Dr Kasthurirangan Gopalakrishnan

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"The topic addressed in the book is very wide, and it is commendable that such a wide range of subtopics are actually covered in enough depth to make it worthwhile to read.....The approach of not only providing technical pavement information, but also relevant applicable regulatory, policy, planning and environmental information provides a good background of the topic to pavement engineers – again information that most of them would not necessarily have had access to without such a compilation of information.....Overall, I view the book as an essential addition to the literature on sustainability in pavements and trust that it will contribute to improved understanding and application of more sustainable practices in highway engineering."

- Prof. Wynand JvdM Steyn, Department of Civil Engineering, University of Pretoria, South Africa

***** 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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