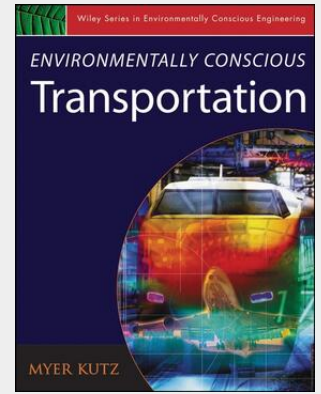


## Environmentally Conscious Transportation

Best practices for designing and implementing sustainable transportation operations The fifth volume of the Wiley Series in Environmentally Conscious Engineering, Environmentally Conscious Transportation provides a foundation for understanding and implementing methods for reducing the environmental impact of a wide range of transportation modes, from private automobiles (with a separate chapter on biofuels) to heavy trucks and buses to rail and public transportation systems to aircraft. Each chapter has been written by one or more experts who, based on their hands-on field experience, present relevant practical and analytic techniques for enhancing the integrity and reliability of transportation vehicles and infrastructure, as well as for measuring and limiting the pollution caused by transportation activities. Moreover, the book explains how to satisfy key business objectives, such as maximizing profits, while meeting environmental objectives. Chapters cover such topics as: \* The linkage between public transportation systems and environmental impacts \* Managing traffic activity to reduce emissions and improve air quality \* Design of small and large electric and hybrid vehicles \* Integrating environmental issues into the management of transportation infrastructure assets \* A thorough and objective review of biofuels \* Environmentally Conscious Transportation is an important reference for environmental, civil, transportation, mechanical, and industrial engineers, as well as public policy planners and officials. This book examines the societal costs of transportation in their broadest sense, both environmental and economic. References at the end of each chapter enable you to investigate individual topics in greater depth. Turn to all of the books in the Wiley Series in Environmentally Conscious Engineering for the most cutting-edge, environmentally friendly engineering practices and technologies.

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