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This books focuses on improving outcomes where transportation needs and small animal habitats overlap. Exploring challenges and solutions from both transportation and ecological perspectives, the volume covers various themes including animal behavior related to roads, the impacts of roads in sensitive areas, and design approaches that mitigate the negative effects of highways on wildlife. The chapter authors -- from transportation experts to university researchers -- each promote the goal of realistic problem solving.

Conceptual and practical, this book will influence the next decade or more of road design in ecologically sensitive areas and should prevent countless unnecessary wildlife fatalities.

Winner of the IENE Project Award 2016. This authoritative volume brings together some of the world 's leading researchers, academics, practitioners and transportation agency personnel to present the current status of the ecological sustainability of the linear infrastructure -- primarily road, rail and utility easements -- that dissect and fragment landscapes globally. It outlines the potential impacts, demonstrates how this infrastructure is being improved, and how broad ecological principles are applied to mitigate the impact of road networks on wildlife. Research and monitoring is an important aspect of road ecology, encompassing all phases of a transportation project. This book covers research and monitoring to span the entire project continuum -- starting with planning and design, through construction and into maintenance and management. It focuses on impacts and solutions for species groups and specific regions, with particular emphasis on the unique challenges facing Asia, South America and Africa. Other key features: Contributions from authors originating from over 25 countries, including from all continents Each chapter summarizes important lessons, and includes lists of further reading and thoroughly up to date references Highlights principles that address key points relevant to all phases in all road projects Explains best-practices based on a number of successful international case studies Chapters are "stand-alone", but they also build upon and complement each other: extensive cross-referencing directs the reader to relevant material elsewhere in the book Handbook of Road Ecology offers a comprehensive summary of approximately 30 years of global efforts to quantify the impacts of roads and traffic and implement effective mitigation. As such, it is essential reading for those involved in the planning, design, assessment and construction of new roads; the management and maintenance of existing roads; and the modifying or retrofitting of existing roads and problem locations. This handbook is an accessible resource for both developed and developing countries, including government transportation agencies, Government environmental/conservation agencies, NGOs, and road funding and donor organisations.

Road Ecology links ecological theories and concepts with transportation planning, engineering, and travel behavior. With more than 100 illustrations and examples from around the world, it is an indispensable and pioneering work for anyone involved with transportation.

All phases of road development -- from construction and use by vehicles to maintenance -- affect physical and chemical soil conditions, water flow, and air and water quality, as well as plants and animals. Roads and traffic can alter wildlife habitat, cause vehicle-related mortality, impede animal migration, and disperse nonnative pest species of plants and animals. Integrating environmental considerations into all phases of transportation is an important, evolving process. The increasing awareness of environmental issues has made road development more complex and controversial. Over the past two decades, the Federal Highway Administration and state transportation agencies have increasingly recognized the importance of the effects of transportation on the natural environment. This report provides guidance on ways to reconcile the different goals of road development and environmental conservation. It identifies the ecological effects of roads that can be evaluated in the planning, design, construction, and maintenance of roads and offers several recommendations to help better understand and manage ecological impacts of paved roads.

This book offers the reader a deeper understanding of the eThekwin Metropolitan Municipality's green and ecological infrastructure policy landscape. The author utilises the PULSE3 analytical framework to conduct an in-depth examination and to show how experts frame and implement the municipality's green and ecological infrastructure strategies and projects. Although the initial purpose of this book was to investigate the role of green and ecological infrastructures in eThekwin's water security aspirations, the author realised that climate change adaptation and mitigation play a more central role in motivating the municipality to develop and implement such science-driven projects. To be sure, science that is informed by a positivist paradigm, guides how, where and when the municipality should develop green and ecological infrastructures. Furthermore, a positivistic stance is generated in this policy landscape, where science and politics meet at a local government level, and the book offers an insight into the science-policy interface, as well as the normative and value orientations that positivism often ignores. The book also shows the usefulness of the PULSE3 framework and how it can assist scientists in all fields to gain a deeper understanding of the complications that are faced by humankind. This book fills a market gap by providing a view of how scientists think about problems and how to solve them by using established paradigms and theories.

The Chinese government is increasingly focusing on ecological construction and has subscribed to a national " Ecological Civilization Construction ". Ecological research and protection practice develop so fast and achieve a lot at the national agenda.This book is a synthesis of five most exciting and dominant themes in contemporary ecological research in China: biodiversity, ecosystem management, degraded ecosystem restoration, global change and sustainable development.This book spans all the Earth's major ecosystems, such as forests, oceans, grasslands, wetlands, lakes, rivers, farmland and cities.This book provides a platform for scientific research across a variety of disciplines. It will be invaluable to experts, policymakers and local officers and will also be a highly useful resource for undergraduate and postgraduate students.This book will allow researchers, students and policymakers outside China to learn about the significant achievements and applications of ecological research within China.

You're overseeing a large-scale project, but you're not an engineering or construction specialist, and so you need an overview of the related sustainability concerns and processes. To introduce you to the main issues, experts from the fields of engineering, planning, public health, environmental design, architecture, and landscape architecture review current sustainable large-scale projects, the roles team members hold, and design approaches, including alternative development and financing structures. They also discuss the challenges and opportunities of sustainability within infrastructural systems, such as those for energy, water, and waste, so that you know what's possible. And best of all, they present here for the first time the Zofnass Environmental Evaluation Methodology guidelines, which will help you and your team improve infrastructure design, engineering, and construction.