

[EPUB] Roads And Ecological Infrastructure Concepts And Applications For Small Animals Wildlife Management And Conservation 2015 04 27

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Roads and Ecological Infrastructure-Kimberly M. Andrews 2015-06 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.

Integrating Transport Infrastructures with Living Landscapes-Andreas Seiler 2019-10-23

Handbook of Road Ecology-Rodney van der Ree 2015-04-02 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-Richard T.T. Forman 2003 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.

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Assessing and Managing the Ecological Impacts of Paved Roads-National Research Council 2006-01-22 All phases of road developmentâ€"from construction and use by vehicles to maintenanceâ€"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.

Transportation Research Record- 1994

System City- 2013-08-19 A radical shift is taking place in the way that society is thinking about cities, a change from the machine metaphors of the 20th century to mathematical models of the processes of biological and natural systems. From this new perspective, cities are regarded not simply as spatially extended material artefacts, but as complex systems that are analogous to living organisms, exhibiting many of the same characteristics. There is an emerging view that the design of the thousands of new cities needed for an expanding world population are to be founded on intelligent and inhabited infrastructural systems or 'flow architectures' of urban metabolisms. The physical arrays of the flow architecture of the city are intimately connected to the networks of subsidiary systems that collect and distribute energy, materials and information. They animate the city, and should therefore be intimately coupled to the spatial and cultural patterns of life in the city, to the public spaces through which people flow, and should unite rather than divide urban morphological and ecological systems. Featured architects: AMID(cero9), Buro Happold, Foster + Partners, Groundlab and SOM. Contributors include: Joan Busquets, Kate Davies and Liam Young, Mehran Gharleghi, Evan Greenberg and George Jeronimidis, Marina Lathouri, Wolf Mangelsdorf, Daniel Segraves, Jack Self, Ricard Solé and Sergi Valverde, and Iain Stewart.

Green Infrastructure-Mark A. Benedict 2006-03-18 Publisher Description

Ecological Networks and Greenways-Rob H. G. Jongman 2004-07 The establishment of ecological networks in Europe and greenways in America has required some of the most advanced applications of the principles of landscape ecology to land use planning. This book provides a thorough overview of recent developments in this emerging field, combining theoretical concepts of landscape ecology with the actual practice of landscape planning and management. In addition to biological and physical considerations important to biodiversity protection and restoration, equal weight is given to cultural and aesthetic issues to illustrate how sympathetic, sustainable land use policies can be implemented. Examples are given for large scale areas (Estonia and Florida) as well as regional areas such as Milano, Chicago and the Argentinian Yungas. This invaluable book will provide a wealth of information for all those concerned with biodiversity conservation through networks and greenways and their relevance to the planning process, whether researcher, land manager or policy maker.

Sustainable Development of Urban Infrastructure-Xiang Dong Zhang 2012-12-13 The collection includes selected, peer-reviewed papers from the 2nd International Conference on Civil Engineering and Transportation (ICCET 2012) held October 27-28, 2012 in Guilin, China. The 432 papers are grouped into the following chapters: Chapter 1: Architectural Design and its Theory, Chapter 2: Urban Planning and Design, Chapter 3: Sustainable City and Regional Development, Chapter 4: Building Materials and Processing Technology, Chapter 5: Renewable Energy and Building Energy Saving, Chapter 6: Building Ecological Environment, Chapter 7: Environmental Engineering and Environmental Protection, Chapter 8: Transportation Planning, Construction and Operation Organization, Chapter 9: ITS Theory and Applications, Chapter 10: Modern Logistics System Planning and Optimization, Chapter 11: Traffic Control and

Information Technology, Chapter 12: Urban Transportation Planning and Management, Chapter 13: Vehicle Engineering.

Roads and the Environment- 1994

An Introduction to Disturbance Ecology-Corrado Battisti 2016-07-19 This book represents an introductory review of disturbance ecology and threat analysis, providing schematic concepts and approaches useful for work on sites that are affected by the impact of human actions. It is aimed at conservation and environmental practitioners, who will find tips for choosing methods and approaches when there are conflicts between the natural components and human activity. It is also addressed to students of applied ecology, ecosystem management, land-use planning and environmental impact assessment. It discusses a number of topics covered in the programs of many university courses related to basic ecology and ecology of disturbance, the latter constituting a field of great interest because of its implications and repercussions in applied territorial science. The book is divided into two parts: the first focuses on the theoretical and disciplinary framework of the ecology of disturbance, while the second is devoted to the analysis of anthropogenic threats. This, in particular, discusses the most recent approach, which uses a conventional nomenclature to allow a coarse-grained quantification and objective assessment of threat impact on different environmental components. Such an approach facilitates the comparison of hierarchically different events and, therefore, helps define the priorities for management and conservation strategies.

Innovative Process Optimization Methods in Logistics-Thorsten Blecker 2010

Interaction Between Roadways and Wildlife Ecology-Gary L. Evink 2002

Infrastructure-Brett M. Frischmann 2012-03-26 Infrastructure: The Social Value of Shared Resources devotes much needed attention to understanding how society benefits from infrastructure resources and how management decisions affect a wide variety of interests. The book links infrastructure, a particular set of resources defined in terms of the manner in which they create value, with commons, a resource management principle by which a resource is shared within a community. The infrastructure commons ideas have broad implications for scholarship and public policy across many fields ranging from traditional infrastructure like roads to environmental economics to intellectual property to Internet policy.

Advances in Civil Engineering and Architecture Innovation-Qing Yang 2011-10-24 These peer-reviewed papers reflect the valuable experience of the authors in the fields of innovation in structural systems and disaster prevention in engineering structures, architectural innovation, sustainable development of buildings, energy and the environment and innovation in, and applications of, building materials. Hot topics and cutting-edge views related to sustainable development in civil engineering are presented.

Southeastern Geographer-David M. Cochran Jr. 2014-12-19 Southeastern Geographer is published by UNC Press for the Southeastern Division of the Association of American Geographers (www.sedaag.org). The quarterly journal publishes the academic work of geographers and other social and physical scientists, and features peer-reviewed articles and essays that reflect sound scholarship and contain significant contributions to geographical understanding, with a special interest in work that focuses on the southeastern United States.

World Highways- 1997

Conservation-Monique Borgerhoff Mulder 2018-06-05 Nearly 90 percent of the earth's land surface is directly affected by human infrastructure and activities, yet less than 5 percent is legally "protected" for biodiversity conservation--and even most large protected areas have people living inside their boundaries. In all but a small fraction of the earth's land area, then, conservation and people must coexist. Conservation is a resource for all those who aim to reconcile biodiversity with human livelihoods. It traces the historical roots of modern conservation thought and practice, and explores current perspectives from evolutionary and community ecology, conservation biology, anthropology, political ecology, economics, and policy. The authors examine a suite of conservation strategies and perspectives from around the world, highlighting the most innovative and promising avenues for future efforts. Exploring, highlighting, and bridging gaps between the social and natural sciences as applied in the practice of conservation, this book provides a broad, practically oriented view. It is essential reading for anyone involved in the conservation process--from academic conservation biology to the management of protected areas, rural livelihood development to poverty alleviation, and from community-based natural resource management to national and global policymaking.

Reptile Ecology and Conservation-Dodd Jr. 2016-05-05 This practical handbook of reptile field ecology and conservation brings together a distinguished, international group of reptile researchers to provide a state-of-the-art review of the many new and exciting techniques used to study reptiles. The authors describe ecological sampling techniques and how they are implemented to monitor the conservation status and population trends of snakes, lizards, tuatara, turtles, and crocodilians throughout the world. Emphasis is placed on the extent of statistical inference and the biases associated with different techniques and analyses. The chapters focus on the application of field research and data analysis for achieving an understanding of reptile life history, population dynamics, movement patterns, thermal ecology, conservation status, and the relationship between reptiles and their environment. The book emphasises the need for thorough planning, and demonstrates how a multi-dimensional approach incorporates information related to morphology, genetics, molecular biology, epidemiology, statistical modelling, animal welfare, and biosecurity. Although accentuating field sampling, sections on experimental applications in laboratories and zoos, thermal ecology, genetics, landscape ecology, disease and biosecurity, and management options are included. Much of this information is scattered in the scientific literature or not readily available, and the intention is to provide an affordable, comprehensive synthesis for use by graduate students, researchers, and practising conservationists worldwide.

International Studies in Shipping Policy and Management-Gillian Ledger 1996

Strategic Planning for Water-Hugh Howes 2008 Strategic Planning for Water examines the neglected relationship between planning for water and spatial planning. It provides the background to sustainable water management and assistance to spatial planners in understanding the complex water environment. This extremely topical book examines the challenges of: how to ensure that water supplies are adequate to meet our future needs how to reduce the risk of flooding as we are faced by stormier winters and rises in sea levels how to better manage our waste water how to further improve the water quality of our rivers in response to the Water Framework Directive. Essential reading for planners, developers and all those who must in future effectively incorporate water issues into their plans, developments and lifestyles if these are to be truly sustainable.

Sustainable Urban Landscapes-University of British Columbia. James Taylor Chair in Landscape and Liveable Environments 1999

Concepts and Methods in Infectious Disease Surveillance-Nkuchia M. M'ikanatha 2014-08-20 Infectious disease surveillance has evolved at an extraordinary pace during the past several decades, and continues to do so. It is increasingly used to inform public health practice in addition to its use as a tool for early detection of epidemics. It is therefore crucial that students of public health and epidemiology have a sound understanding of the concepts and principles that underpin modern surveillance of infectious disease. Written by leaders in the field, who have vast hands-on experience in conducting surveillance and teaching applied public health, Concepts and Methods in Infectious Disease Surveillance is comprised of four sections. The first section provides an overview, a description of systems used by public health jurisdictions in the United States and legal considerations for surveillance. The second section presents chapters on major program-area or disease-specific surveillance systems, including those that monitor bacterial infections, foodborne diseases, healthcare-associated infections, and HIV/AIDS. The following section is devoted to methods for conducting surveillance and also approaches for data analysis. A concluding section summarizes communication of surveillance findings, including the use of traditional and social media, in addition to showcasing lessons learned from the New York City Department of Health's experience in surveillance and epidemiology training. This comprehensive new book covers major topics at an introductory to intermediate level, and will be an excellent resource for instructors. Suitable for use in graduate level courses in public health, human and veterinary medicine, and in undergraduate programs in public-health-oriented disciplines, Concepts and Methods in Infectious Disease Surveillance is also a useful primer for frontline public health practitioners, hospital epidemiologists, infection control practitioners, laboratorians in public health settings, infectious disease researchers, and medical and public health informaticians interested in a concise overview of infectious disease surveillance.

Culture + the State: Landscape and Ecology- 2003

2003 National Urban Forest Conference Proceedings-Cheryl Kollin 2003

Ecology and Farming- 1993

Human Ecology- 2016

Challenges for Urban Infrastructure in the European Union-Frank J. Convery 1998 Recoge: 1.The policy context - 2.Why focus on urban infrastructure? - 3.Towards an analytical framework - 4.Forms of urban infrastructure and they

influence well-being - 5.The importance of scale - 6.Creating and managing urban infrastructure - 7.Policy implications and conclusions.

Intermodal ... Conference Proceedings- 1993

Ecological Networks in Estonia-Mart Klvik 2002

McGraw-Hill Concise Encyclopedia of Science & Technology-Mcgraw-Hill 2005 Features more than seven thousand entries covering topics, terms, and concepts in math, science, and technology.

Transportation and Children's Well-Being-Owen Waygood 2019-10 Transportation and Children's Well-Being applies an ecological approach, examining the social, psychological and physical impacts transport has on children at the individual and community level. Drawing on the latest multidisciplinary research in transport, behavior, policy, the built environment and sustainability, the book explains the pathways and mechanisms by which transport affects the different domains of children's travel. Further, the book identifies the influences of transportation with respect to several domains of well-being, highlighting the influences of residential location on travel by different modes and its impact on the long-term choices families make. The book concludes with proposed evidence-based solutions using real-world examples that support positive influences on well-being and eliminate or reduce negative solutions. Brings disparate child transportation material together in one clearly defined narrative Illustrates evidence using a range of examples from Europe, North America and Asia Includes new research developments on the intrinsic aspects of access and externalities

Concepts and Methods of Environment Statistics, Statistics of the Natural Environment-United Nations. Statistical Office 1991 This report proposes concepts, definitions and classifications for statistical variables that describe the state and trends of the natural environment and its relationships with human and socio-economic activities. It is based on the structure and principles of A Framework for the Development of Environment Statistics (Series M, No. 78). The report presents a menu of statistical variables that can be selected in the development of national and international programmes of environment statistics and indicators. A companion report, Concepts and Methods of Environment Statistics: Human Settlements - A Technical Report, published in 1988, deals with the environmental aspects of human settlements statistics.

The Geography of Transport Systems-Jean-Paul Rodrigue 2013-07-18 Mobility is fundamental to economic and social activities such as commuting, manufacturing, or supplying energy. Each movement has an origin, a potential set of intermediate locations, a destination, and a nature which is linked with geographical attributes. Transport systems composed of infrastructures, modes and terminals are so embedded in the socio-economic life of individuals, institutions and corporations that they are often invisible to the consumer. This is paradoxical as the perceived invisibility of transportation is derived from its efficiency. Understanding how mobility is linked with geography is main the purpose of this book. The third edition of The Geography of Transport Systems has been revised and updated to provide an overview of the spatial aspects of transportation. This text provides greater discussion of security, energy, green logistics, as well as new and updated case studies, a revised content structure, and new figures. Each chapter covers a specific conceptual dimension including networks, modes, terminals, freight transportation, urban transportation and environmental impacts. A final chapter contains core methodologies linked with transport geography such as accessibility, spatial interactions, graph theory and Geographic Information Systems for transportation (GIS-T). This book provides a comprehensive and accessible introduction to the field, with a broad overview of its concepts, methods, and areas of application. The accompanying website for this text contains a useful additional material, including digital maps, PowerPoint slides, databases, and links to further reading and websites. The website can be accessed at: <http://people.hofstra.edu/geotrans> This text is an essential resource for undergraduates studying transport geography, as well as those interest in economic and urban geography, transport planning and engineering.

Green Infrastructure for Landscape Planning-Gary Austin 2014-01-21 Green infrastructure integrates human and natural systems through a network of corridors and spaces in mixed-use and urban settings. Austin takes a broad look at green infrastructure concepts, research and case studies to provide the student and professional with processes, criteria and data to support planning, design and implementation. Key topics of the book include: The benefits of green infrastructure as a conservation and planning tool Requirements of ecosystem health Green infrastructure ecosystem services that contribute to human physical and psychological health Planning processes leading to robust green infrastructure networks Design of green infrastructure elements for multiple uses. The concept of ecosystem services is extensively developed in this book, including biological treatment of stormwater and wastewater, opportunities for recreation, urban agriculture and emersion in a naturalistic setting. It defines planning and design processes as well as the political and economic facets of envisioning, funding and implementing green infrastructure networks. The book differs from others on the market by presenting the technical issues, requirements and performance of green infrastructure elements, along with the more traditional recreation and wildlife needs associated with greenway planning, providing information derived from environmental engineering to guide planners and landscape architects.

Green Fields, Brown Fields, New Fields-David Nichols 2010 "The conference explores past and future approaches to managing and designing for growth, development and decline. This goes beyond debates over density, frontier development and renewal. It includes new fields of historical, policy and social research which inform discussion of heritage, growth, environmental, economic and other issues of urban life and urban form. " -- p. iii.

Rise of the Necrofauna-Britt Wray 2017-09-30 Jurassic Park meets The Sixth Extinction in Rise of the Necrofauna, a provocative look at de-extinction from acclaimed documentarist and science writer Britt Wray. A New Yorker "The Books We Loved in 2017" Selection A Science News Favorite Book of 2017 A Sunday Times "Must Read" What happens when you try to recreate a woolly mammoth—fascinating science, or conservation catastrophe? In Rise of the Necrofauna, Wray takes us deep into the minds and labs of some of the world's most progressive thinkers to find out. She introduces us to renowned futurists like Stewart Brand and scientists like George Church, who are harnessing the powers of CRISPR gene editing in the hopes of "reviving" extinct passenger pigeons, woolly mammoths, and heath hens. She speaks with Nikita Zimov, who together with his eclectic father Sergey, is creating Siberia's Pleistocene Park—a daring attempt to rebuild the mammoth's ancient ecosystem in order to save earth from climate disaster. Through interviews with these and other thought leaders, Wray reveals the many incredible opportunities for research and conservation made possible by this emerging new field. But we also hear from more cautionary voices, like those of researcher and award-winning author Beth Shapiro (How to Clone a Woolly Mammoth) and environmental philosopher Thomas van Dooren. Writing with passion and perspective, Wray delves into the larger questions that come with this incredible new science, reminding us that de-extinction could bring just as many dangers as it does possibilities. What happens, for example, when we bring an "unextinct" creature back into the wild? How can we care for these strange animals and ensure their comfort and safety—not to mention our own? And what does de-extinction mean for those species that are currently endangered? Is it really ethical to bring back an extinct passenger pigeon, for example, when countless other birds today will face the same fate? By unpacking the many biological, technological, ethical, environmental, and legal questions raised by this fascinating new field, Wray offers a captivating look at the best and worst of resurrection science. A captivating whirlwind tour through the birth and early life of the scientific idea known as "de-extinction."—Beth Shapiro, author of How to Clone a Mammoth: The Science of De-Extinction Published in partnership with the David Suzuki Institute.

Industrial Ecology and the Automobile-T. E. Graedel 1998 Using the automobile as a case study of one of the industries most attuned to the concept of industrial ecology (i.e., the means by which humanity can deliberately and rationally approach and maintain a desirable carrying capacity, given continued economic, cultural and technological evolution), this text provides a general introduction to how to design for environment -- a key component of the repertoire of the 21st century engineer. Although the focus throughout is on the automobile, the concepts, suggestions, and insights are appropriate to all of technology.

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