

# Road Ecology

*Science and Solutions*

Richard T. T. Forman  
Daniel Sperling  
John A. Bissonette  
Anthony P. Clevenger  
Carol D. Cutshall  
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# Road Ecology Science And Solutions

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## **Road Ecology Science And Solutions:**

Road Ecology Richard T.T. Forman, Daniel Sperling, John A. Bissonette, Anthony P. Clevenger, Carol D. Cutshall, Virginia H. Dale, Lenore Fahrig, Robert L. France, Charles R. Goldman, Kevin Heanue, Julia Jones, Frederick Swanson, Thomas Turrentine, Thomas C. Winter, 2003 A central goal of transportation is the delivery of safe and efficient services with minimal environmental impact In practice though human mobility has flourished while nature has suffered Awareness of the environmental impacts of roads is increasing yet information remains scarce for those interested in studying understanding or minimizing the ecological effects of roads and vehicles Road Ecology addresses that shortcoming by elevating previously localized and fragmented knowledge into a broad and inclusive framework for understanding and developing solutions The book brings together fourteen leading ecologists and transportation experts to articulate state of the science road ecology principles and presents specific examples that demonstrate the application of those principles Diverse theories concepts and models in the new field of road ecology are integrated to establish a coherent framework for transportation policy planning and projects Topics examined include foundations of road ecology roads vehicles and transportation planning vegetation and roadsides wildlife populations and mitigation water sediment and chemical flows aquatic ecosystems wind noise and atmospheric effects road networks and landscape fragmentation 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 including practitioners and planners in state and province transportation departments federal agencies and nongovernmental organizations The book also opens up an important new research frontier for ecologists

**Handbook of Road Ecology** Rodney van der Ree, Daniel J. Smith, Clara Grilo, 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

**Amphibian and Reptile Road Ecology** Cheryl S. Brehme, Robert Nathan Fisher, Silviu O. Petrovan, Viorel Dan Popescu, Thomas Edward S. Langton, Kimberly M. Andrews, 2024-05-21 Roads may threaten the persistence of wildlife populations by acting as barriers to movement and or sources of increased mortality across the landscape Amphibians and reptiles have been identified as being particularly susceptible to negative road impacts Many species migrate annually among habitats to support basic life history requirements such as breeding development foraging and overwintering For these species individuals may need to successfully cross roads multiple times each year for the population to persist Many are slow moving and freeze in the presence of danger making it almost impossible for them to avoid oncoming vehicles Although there are a plethora of road mortality location and count data the effects of road mortality on the long term viability of amphibian and reptile populations and metapopulations are mostly unknown due to a lack of information on their abundance vital rates behavior and spatial and temporal dynamics

**Railway Ecology** Luís Borda-de-Água, Rafael Barrientos, Pedro Beja, Henrique Miguel Pereira, 2017-09-18 This book is open access under a CC BY 4.0 license This book provides a unique overview of the impacts of railways on biodiversity integrating the existing knowledge on the ecological effects of railways on wildlife identifying major knowledge gaps and research directions and presenting the emerging field of railway ecology The book is divided into two major parts Part one offers a general review of the major conceptual and theoretical principles of railway ecology The chapters consider the impacts of railways on wildlife populations and concentrate on four major topics mortality barrier effects species invasions and disturbances ranging from noise to chemical pollution Part two focuses on a number of case studies from Europe Asia and North America written by an international group of experts

**Park Science**, 2012 *Car Country* Christopher W. Wells, 2013-05-15 For most people in the United States going almost anywhere begins with reaching for the car keys This is true Christopher Wells argues because the United States is Car Country a nation dominated by landscapes that are difficult inconvenient and often unsafe to navigate by those who are not sitting behind the wheel of a car The prevalence of car dependent landscapes seems perfectly natural to us today but it is in fact a relatively new historical development In Car Country Wells rejects the idea that the nation's automotive status quo can be explained as a simple byproduct of an ardent love affair with the automobile Instead he takes readers on a tour of the evolving American landscape charting the ways that transportation policies and land use

practices have combined to reshape nearly every element of the built environment around the easy movement of automobiles Wells untangles the complicated relationships between automobiles and the environment allowing readers to see the everyday world in a completely new way The result is a history that is essential for understanding American transportation and land use issues today Watch the book trailer <http://www.youtube.com/watch?v=48LTKOxxrXQ> *Ecological Issues in a Changing World* Sun-Kee Hong, John A. Lee, Byung-Sun Ihm, A. Farina, Yowhan Son, Kim Eun-Shik, Jae C. Choe, 2007-11-05

Problems of scale have exercised the minds of ecologists for many years and will continue to do so into the future This volume deals with this subject and with mathematical approaches to improve our understanding of complex ecological systems The book also concentrates on monitoring the responses of ecosystems especially to human impacts upon them The importance of spatial separation of function at both the landscape and ecosystem level forms an important theme Finally this special book focuses on large scale issues discussing in particular important applied ecological problems and how these can be managed through a variety of planning processes Many examples of major ecological problems in the mainstream ecological literature are drawn from Europe and North America In contrast many of the most pressing ecological problems are to be found elsewhere in the world This volume is composed of four parts according to scale objectives and application of modern ecological research Part I covers emerging concepts and models in the ecosystem complex and in the landscape Part II Biological responses to environmental changes pattern and process Part III Ecological networking and restoration technology theory and practice and finally a summary of 8th INTECOL Congress and possible future directions are covered in Part IV

**Crossings: How Road Ecology Is Shaping the Future of Our Planet** Ben Goldfarb, 2023-09-12 Grand Prize Winner of the 2024 Banff Mountain Book Competition Winner of the Rachel Carson Award for Excellence in Environmental Journalism Finalist for the NYPL Helen Bernstein Book Award for Excellence in Journalism Finalist for the PEN E O Wilson Literary Science Writing Award Finalist for the Reading the West Book Award in Nonfiction Finalist for the Colorado Book Award Named a Best Book of the Year by the New York Times The New Yorker Science News Smithsonian Magazine and Kirkus Reviews A powerhouse of a book comprehensive and engaging David Gessner Washington Post An eye opening account of the global ecological transformations wrought by roads from the award winning author of *Eager* Some 40 million miles of roadways encircle the earth yet we tend to regard them only as infrastructure for human convenience While roads are so ubiquitous they re practically invisible to us wild animals experience them as entirely alien forces of death and disruption In *Crossings* environmental journalist Ben Goldfarb travels throughout the United States and around the world to investigate how roads have transformed our planet A million animals are killed by cars each day in the U S alone but as the new science of road ecology shows the harms of highways extend far beyond roadkill Creatures from antelope to salmon are losing their ability to migrate in search of food and mates invasive plants hitch rides in tire treads road salt contaminates lakes and rivers and the very noise of traffic chases songbirds from vast swaths of habitat Yet road ecologists are also

seeking to blunt the destruction through innovative solutions Goldfarb meets with conservationists building bridges for California's mountain lions and tunnels for English toads engineers deconstructing the labyrinth of logging roads that web national forests animal rehabbers caring for Tasmania's car orphaned wallabies and community organizers working to undo the havoc highways have wreaked upon American cities Today as our planet's road network continues to grow exponentially the science of road ecology has become increasingly vital Written with passion and curiosity Crossings is a sweeping spirited and timely investigation into how humans have altered the natural world and how we can create a better future for all living beings

**Displaying Death and Animating Life** Jane C. Desmond, 2016-08-18 The number of ways in which humans interact with animals is almost incalculable From beloved household pets to the steak on our dinner tables the fur in our closets to the Babar books on our shelves taxidermy exhibits to local zoos humans have complex deep and dependent relationships with the animals in our ecosystems In *Displaying Death and Animating Life* Jane C Desmond puts those human animal relationships under a multidisciplinary lens focusing on the less obvious and revealing the individualities and subjectivities of the real animals in our everyday lives Desmond a pioneer in the field of animal studies builds the book on a number of case studies She conducts research on site at major museums taxidermy conventions pet cemeteries and even at a professional conference for writers of obituaries She goes behind the scenes at zoos wildlife clinics and meetings of pet cemetery professionals We journey with her as she meets Kanzi the bonobo artist and a host of other animal artists all of whom are preparing their artwork for auction Throughout Desmond moves from a consideration of the visual display of unindividuated animals to mourning for known animals and finally to the marketing of artwork by individual animals The first book in the new *Animal Lives* series *Displaying Death and Animating Life* is a landmark study bridging disciplines and reaching across divisions from the humanities and social sciences to chart new territories of investigation

*Landscape-scale Conservation Planning* Stephen C. Trombulak, Robert Baldwin, 2010-09-21 Hugh P Possingham Landscape scale conservation planning is coming of age In the last couple of decades conservation practitioners working at all levels of governance and all spatial scales have embraced the CARE principles of conservation planning Comprehensiveness Adequacy Representativeness and Efficiency Hundreds of papers have been written on this theme and several different kinds of software program have been developed and used around the world making conservation planning based on these principles global in its reach and influence Does this mean that all the science of conservation planning is over that the discovery phase has been replaced by an engineering phase as we move from defining the rules to implementing them in the landscape This book and the continuing growth in the literature suggest that the answer to this question is most definitely no All of applied conservation can be wrapped up into a single sentence what should be done the action in what place at what time using what mechanism and for what outcome the objective It all seems pretty simple what where when how and why However stating a problem does not mean it is easy to solve

**Reptiles and Amphibians** David

Aguillón-Gutiérrez,2018-07-18 The book Reptiles and Amphibians is a compilation of the current trends in herpetology focusing on evolution physiology monitoring bioacoustics threats and conservation biology All the chapters present an interesting aspect of the biology of reptiles and amphibians encompassing different groups of these animals such as frogs toads newts chelonians and snakes from various parts of the world Without a doubt this book will help to keep updated on the current problems that arise in this interesting biological group *Biodiversity in the Green Economy* Alexandros Gasparatos,Katherine J. Willis,2015-06-05 In the past decade the growing realization that biodiversity and human wellbeing are inextricably linked has led to the adoption of numerous environmental policies The concept of the Green Economy has gained particular attention as an economic system where growth is possible within environmental limits The preservation of ecosystem services and the halt of biodiversity loss are identified as key pillars of the Green Economy Despite the concept s momentum there is still no clear understanding of how biodiversity fits within a Green Economy In the current debate biodiversity is rarely acknowledged in economic sectors other than agriculture forestry fisheries and tourism and when it is acknowledged biodiversity and its conservation feature more as buzzwords than as concrete and tangible components of the Green Economy This book aims to identify understand and offer pragmatic recommendations of how biodiversity conservation can become an agent of green economic development This book establishes ways to assess biodiversity s contributions to the economy and to meaningfully integrate biodiversity concerns in green economy policies **Sustainable Transportation in Natural and Protected Areas** Francesco Orsi,2015-07-16 Protected areas are at the centre of nature based tourism which is increasingly popular across the world As visitor numbers increase so does awareness of the harmful effects that large crowds may have on both natural resources and individuals recreational experience This volume considers the challenge of transportation to and within natural and protected areas the improvement of which has already been recognised as having great potential for mitigating the environmental impacts of ecotourism While several books have focused considerable attention to the management of protected areas in general little has been said about the specific issue of sustainable transport an emerging trend that is already reshaping visitation patterns in natural settings This book provides current knowledge on issues associated with the transportation of visitors in natural and protected areas and a comprehensive overview of the technical and strategic options available to tackle these issues It approaches the subject via three main topics preferences or the visitors attitudes towards transportation practices where current approaches are assessed through examples and case studies of successful experiences and methodologies from around the world and policies where suggestions and recommendations are put forward for both local scale strategies and broad scale regulatory action with global relevance Contributors include academics in the field of natural resource management and tourism with extensive experience in protected area management and active partnerships with natural park administrations *Phyto* Kate Kennen,Niall Kirkwood,2015-05-01 Winner of the 2017 CBHL Literature Award of Excellence in Landscape Design and

Architecture Phyto presents the concepts of phytoremediation and phytotechnology in one comprehensive guide illustrating when plants can be considered for the uptake removal or mitigation of on site pollutants Current scientific case studies are covered highlighting the advantages and limitations of plant based cleanup Typical contaminant groups found in the built environment are explained and plant lists for mitigation of specific contaminants are included where applicable This is the first book to address the benefits of phytotechnologies from a design point of view taking complex scientific terms and translating the research into an easy to understand reference book for those involved in creating planting solutions Typically phytotechnology planting techniques are currently employed post site contamination to help clean up already contaminated soil by taking advantage of the positive effects that plants can have upon harmful toxins and chemicals This book presents a new concept to create projective planting designs with preventative phytotechnology abilities phytobuffering where future pollution may be expected for particular site programs Filled with tables photographs and detailed drawings Kennen and Kirkwood s text guides the reader through the process of selecting plants for their aesthetic and environmental qualities combined with their contaminant removal benefits     *Infrastructure Sustainability and Design* Spiro Pollalis,Andreas Georgoulas,Stephen Ramos,Daniel Schodek,2013-06-19 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     **Surface Transportation Environmental Research** Transportation Research Board,2005-08-14 TRB Special Report 268 Surface Transportation Environmental Research A Long Term Strategy defines a broad and ambitious research program to address and inform major public policy debates about the effects of surface transportation facilities and operations on the human and natural environments The committee that conducted the study identified major gaps in knowledge that could be filled through a cooperative program of research involving federal agencies states and environmental organizations The committee recommended creation of a new cooperative research program to carry out its recommended research agenda Special Report 268 Summary     *Encyclopedia of Transportation* Mark Garrett,2014-08-13 Viewing transportation through the lens of current social economic and policy aspects this four volume reference work explores the topic of transportation across multiple disciplines within the social sciences and related areas including geography public policy business and economics Features Approximately 675 signed articles authored by prominent scholars are arranged in A to Z fashion and conclude with



Further Readings and cross references A Chronology helps readers put individual events into historical context a Reader s Guide organizes entries by broad topical or thematic areas a detailed index helps users quickly locate entries of most immediate interest and a Resource Guide provides a list of journals books and associations and their websites While articles were written to avoid jargon as much as possible a Glossary provides quick definitions of technical terms To ensure full well rounded coverage of the field the General Editor with expertise in urban planning public policy and the environment worked alongside a Consulting Editor with a background in Civil Engineering The index Reader s Guide and cross references combine for thorough search and browse capabilities in the electronic edition Available in both print and electronic formats Encyclopedia of Transportation is an ideal reference for libraries and those who want to explore the issues that surround transportation in the United States and around the world Key Themes Administration Operations and Evaluation Air Transportation Systems Economics of Transportation Energy Environmental and Health Impacts Facilities and Infrastructure Intermodal Transportation Systems International Transportation and Policy Labor Issues Employee Relations Planning and Policy Safety and Security Social Issues in Transportation Surface Transportation Systems Technology Design and Engineering Transportation Finance of Transportation Legislation Transportation Modeling Transportation Organizations and Agencies Travel Behavior and Research Water Transportation Systems

**The Biology of Urban Environments** Philip James, 2018-06-28 How do plants animals and humans manage to survive and adapt to the urban environment This book provides a comprehensive coverage of biological matters related to urban environments presenting both the conceptual and theoretical underpinnings and practical examples required to understand and address the challenges presented by this novel environment The Biology of Urban Environments focusses on urban denizens species both domesticated and non domesticated that live for all or part of their life cycle in towns and cities The biology of household plants and companion animals is discussed alongside that of species that have become feral or have not been domesticated Temporal and spatial distribution patterns are set out and generalizations are made while exceptions are also discussed The various strategies used and the genotypic phenotypic and behavioural adaptations of plants and animals in the face of the challenges presented by urban environments are explained The final two chapters contain a discussion of the impacts of urban environments on human biology and suggestions on how this understanding might be used to address the increasing human health burden associated with illnesses that are characteristic of urbanites in the early twenty first century

Eco-design of Buildings and Infrastructure Bruno Peuportier, Fabien Leurent, Jean Roger-Estrade, 2016-11-03 The Chair on Ecodesign for buildings and infrastructures was created by ParisTech in partnership with VINCI with the aim of developing evaluation and simulation tools that integrate all eco-design aspects e g greenhouse gas emissions impact on biodiversity depletion of resources etc and provide genuine decision aid instruments based on a scientific approach to all those involved in the urban environment i e designers builders and users The present book takes stock of five years of research under the Chair It starts by presenting

some methodological bases of ecodesign life cycle assessments impact studies and methods for planning and transport Several specific subjects are then covered i e public transport parking road traffic the environmental profile of building materials building retrofits energy management and biodiversity The last part of the book sets out how the knowledge and tools developed under the Chair were applied to a case study Cit Descartes in Marne la Vall e Ile de France This work is aimed at urban planners local authorities contracting clients architects engineering firms contractors building managers research lecturers and anyone interested in the environmental quality of the places we live in      **Practical Conservation**

**Biology** David Lindenmayer, Mark Burgman, 2005-10-26 Practical Conservation Biology covers the complete array of topics that are central to conservation biology and natural resource management thus providing the essential framework for undergraduate and post graduate courses in these subject areas Written by two of the world s leading environment experts it is a must have reference for environment professionals in government non government and industry sectors The book reflects the latest thinking on key topics such as extinction risks losses of genetic variability threatening processes fire effects landscape fragmentation habitat loss and vegetation clearing reserve design sustainable harvesting of natural populations population viability analysis risk assessment conservation biology policy human population growth and its impacts on biodiversity Practical Conservation Biology deals primarily with the Australian context but also includes many overseas case studies The book is the most comprehensive assessment of conservation topics in Australia and one of the most comprehensive worldwide Winner of the 2006 Whitley Award for Best Conservation Text

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