

Urban Ecology

SolvedThe Radicals' City: Urban Environment, Polarisation, CohesionThe Life of the CityUrban Greening Techniques: An IntroductionSustainable Approaches to Urban TransportUrban Flood Mitigation Strategies Using Geo Spatial ToolsPlanning Sustainable CitiesCNRS International MagazineNorth American Monarch Butterfly Ecology and ConservationUrban EcologyUrban EcologyUrban EcologyUrban EcologyGreen Jobs in the Forest SectorUrban EcologyThe Routledge Handbook of Urban EcologyThe Wisconsin Environmental Education Board ... Grant RecipientsEcology of Urban EnvironmentsLinkages of SustainabilityThe Ecology of Urban Habitats David Miller Dr Ralf Brand Dr Julian Brigstocke Chun Liang Tan Dinesh Mohan Narendar Kumar Spiro N. Pollalis Jay E. Diffendorfer Jari Niemelä Philip James John Marzluff Jari Niemelä Jürgen Breuste Ian Douglas Wisconsin Environmental Education Board Kirsten M. Parris T. E. Graedel Oliver Gilbert Solved The Radicals' City: Urban Environment, Polarisation, Cohesion The Life of the City Urban Greening Techniques: An Introduction Sustainable Approaches to Urban Transport Urban Flood Mitigation Strategies Using Geo Spatial Tools Planning Sustainable Cities CNRS International Magazine North American Monarch Butterfly Ecology and Conservation Urban Ecology Urban Ecology Urban Ecology Urban Ecology Green Jobs in the Forest Sector Urban Ecology The Routledge Handbook of Urban Ecology The Wisconsin Environmental Education Board ... Grant Recipients Ecology of Urban Environments Linkages of Sustainability The Ecology of Urban Habitats David Miller Dr Ralf Brand Dr Julian Brigstocke Chun Liang Tan Dinesh Mohan Narendar Kumar Spiro N. Pollalis Jay E. Diffendorfer Jari Niemelä Philip James John Marzluff Jari Niemelä Jürgen Breuste Ian Douglas Wisconsin Environmental Education Board Kirsten M. Parris T. E. Graedel Oliver Gilbert

if our planet is going to survive the climate crisis we need to act rapidly taking cues from progressive cities around the world including los angeles new york toronto oslo shenzhen and sydney this book is a summons to every city to make small but significant changes that can drastically reduce our carbon footprint we cannot wait for national governments to agree on how to reduce greenhouse gas emissions and manage the average temperature rise to within 1.5 degrees in solved david miller argues that cities are taking action on climate change because they can and because they must the updated paperback edition of solved how the world's great cities are fixing the climate crisis demonstrates that the initiatives cities have taken to control the climate crisis can make a real difference in reducing global emissions if implemented worldwide by chronicling the stories of how cities have taken action to meet and exceed emissions targets laid out in the paris agreement miller empowers readers to fix the climate crisis as much a how to guide for policymakers as a work for concerned citizens solved aims to inspire hope through its clear and factual analysis of what can be done now today to mitigate our harmful emissions and pave the way to a 1.5 degree world

bringing together comparative case studies from belfast beirut amsterdam and berlin this book examines the role of the urban environment in social polarisation

processes in doing so it provides a timely and refreshingly innovative voice in the confusing babble on counter terrorism urban conflict and community cohesion despite their socio political differences these cities are telling cases of how the location and shape of very mundane objects such as rubbish bins bridges clothes stores shopping malls and cafés in addition to the obvious fences walls and barbed wire are often subject to heated controversies and influence the way urban conflict is lived and practised within a science and technology studies theoretical framework the authors provide a systematic analysis of these four cities and provide many concrete and richly illustrated examples of material agency without losing sight of their specific historical political geographical and social conditions the sts angle permits some surprising yet extremely convincing conclusions which are of use not only for a range of practitioners but also to scholars interested in the social shaping processes and the consequences of urban artefacts the authors argue that although architecture and urban design is clearly not the sole cause of conflict and polarisation neither is it completely innocent conversely it cannot be the silver bullet to solve related problems and to create community cohesion however the materiality of our cities must not be ignored in fact it can and should be enrolled in our efforts the book contains detailed descriptions of such positive cases as inspiration for practitioners as diverse as policy makers architects urban designers planners community workers consultants or police officers

could the vitality of embodied experience create a foundation for a new form of revolutionary authority the life of the city is a bold and innovative reassessment of the early urban avant garde movements that sought to re imagine and reinvent the experiential life of the city constructing a ground breaking theoretical analysis of the relationships between biological life urban culture and modern forms of biopolitical experiential authority julian brigstocke traces the failed attempts of parisian radicals to turn the crisis of authority in late nineteenth century paris into an opportunity to invent new forms of urban commons the most comprehensive account to date of the spatial politics of the literary artistic and anarchist groups that settled in the montmartre area of paris after the suppression of the 1871 paris commune the life of the city analyses the reasons why laughter emerged as the unlikely tool through which parisian bohemians attempted to forge a new non representational biopolitics of sensation ranging from the carnivalesque performances of artistic cabarets such as the chat noir to the laughing violence of anarchist terrorism the life of the city is a timely analysis of the birth of a carnivalesque politics that remains highly influential in contemporary urban movements

what is the best way to design with greenery what are the benefits of selecting one species of tree over another and placing it at point a instead of point b will it cost more than the benefits it provides if you have ever asked these questions this book is for you greenery is an integral part of the sustainable planning and design ethos besides beautifying the environment it can also help alleviate adverse impacts of urbanisation such as the urban heat island effect this book provides an introduction to the various technologies and techniques that facilitate the urban greening process each chapter introduces the concept of urban greenery at different scales city precinct and plant as well as relevant methods and considerations for implementation assessment frameworks are provided to maximise the benefits of greenery whilst minimising disservices associated with poor planning execution or maintenance of greenery or greenery systems simple exercises and online

resources are provided to illustrate how concepts from this book can be applied in practice this textbook is essential reading for anyone interested in urban greenery and how it can make a tangible positive impact on our built environment from students in the architecture landscape architecture and building construction disciplines to urban planners building owners designers and facility managers who wish to make more informed choices when incorporating greenery into the urban environment during the planning design construction and maintenance stages

as cities become increasingly congested current transport patterns are unsustainable heavy in energy use high in economic and environmental cost and exacerbating inequity between those who can access high speed travel and those who cannot good urban planning develops human scale cities and encourages modes such as bicycles increased zones exclusive to pedestrians within cities and changed fiscal policies to incentivize public over private transport equally it requires good engineering design to manage road use sustainable approaches to urban transport brings together contributions from leading international experts in urban planning transport and governance who suggest changes to make our cities more sustainable in the face of climate change all professionals working in transport and engineering and planning students will find an overview of a broad field in this interdisciplinary collection of essays

the disastrous effects of floods in urban areas of various indian cities have been increasing in severity and extent over the past decade this book explores flood disasters their impact in world and indian contexts assessing vulnerability and risks involved and systematic use of gis enabled platforms to map mitigation measures sustainably with special reference to the metropolitan flood mitigation endeavors this book balances the theoretical with empirical approaches to form a unique standpoint on the various challenges and possible solutions to urban flooding in india through a study of major urban flood incidents this book analyzes the factors which contribute to the rising risk of flooding with increasing urbanization population dynamics growth and urban sprawl with particular focus on the cities of chennai mumbai and hyderabad in india it also examines disaster governance on urban floods and legislative prospects of flood disasters through discussions on standing acts united nations un directives and internationally adopted practices and actions which are applicable in the indian context an interdisciplinary study this book brings together tools and research from various disciplines including geography urban and regional planning and gis it will be an invaluable resource for researchers scholars engineers students planners academicians and professionals of cross disciplines to help them resolve the problem of urban flooding it will also be of interest to the general reader seeking to learn more about disasters urban flooding engineering and gis

planning sustainable cities an infrastructure based approach provides an analytical framework for urban sustainability focusing on the services and performance of infrastructure systems the book approaches infrastructure as a series of systems that function in synergy and are directly linked with urban planning this method streamlines and guides the planning process while still highlighting detail each infrastructure system is decoded in four system levels the levels organize the processes highlight connections between entities and decode the high level planning and decision making process affecting infrastructure for each system level strategic

objectives of planning are determined the objectives correspond to the five focus areas of the zofnass program quality of life natural world climate and risk resource allocation leadership developed through the zofnass program at the harvard graduate school of design this approach integrates the key infrastructure systems of energy landscape transportation waste water information and food and explores their synergies through land use planning engineering economics and policy the size and complexity of infrastructure systems means that multiple stakeholders facing their own challenges and agendas are involved in planning this book creates a common collaborative platform between public authorities planners and engineers it is an essential resource for those seeking envision sustainability professionals accreditation

this ebook is a collection of articles from a frontiers research topic frontiers research topics are very popular trademarks of the frontiers journals series they are collections of at least ten articles all centered on a particular subject with their unique mix of varied contributions from original research to review articles frontiers research topics unify the most influential researchers the latest key findings and historical advances in a hot research area find out more on how to host your own frontiers research topic or contribute to one as an author by contacting the frontiers editorial office frontiersin.org about contact

urbanization is a global phenomenon that is increasingly challenging human society it is therefore crucially important to ensure that the relentless expansion of cities and towns proceeds sustainably urban ecology the interdisciplinary study of ecological patterns and processes in towns and cities is a rapidly developing field that can provide a scientific basis for the informed decision making and planning needed to create both viable and sustainable cities urban ecology brings together an international team of leading scientists to discuss our current understanding of all aspects of urban environments from the biology of the organisms that inhabit them to the diversity of ecosystem services and human social issues encountered within urban landscapes the book is divided into five sections with the first describing the physical urban environment subsequent sections examine ecological patterns and processes within the urban setting followed by the integration of ecology with social issues the book concludes with a discussion of the applications of urban ecology to land use planning the emphasis throughout is on what we actually know as well as what we should know about the complexities of social ecological systems in urban areas in order to develop urban ecology as a rigorous scientific discipline

urban ecology an introduction seeks to open the reader s mind and eyes to the way in which nature permeates everyday urban living and how it has to be understood cared for and managed in order to make our towns and cities healthier places to visit and in which to live and work the authors examine how nature can improve our physical and mental health the air we breathe and the waters we use as well as boosting our enjoyment of parks and gardens urban ecology sets out the science that underlies the changing natural scene and the tools used to ensure that cities become both capable of adapting to climate change and more beautiful and resilient the book begins with a discussion of the nature of urban places and the role of nature in towns and cities part 1 looks at the context and content of urban ecology its relationship to other foci of interest within ecology and other environmental sciences and the character of city landscapes and ecosystems in part

2 the authors set out the physical and chemical components of urban ecosystems and ecological processes including urban weather and climate urban geomorphology and soils urban hydrology and urban biogeochemical cycles in part 3 urban habitats urban flora and fauna and the effects of deliberate and inadvertent human action on urban biota are examined part 4 contains an exploration of the identification and assessment of ecosystem services in urban areas emphasising economic evaluation the importance of urban nature for human health and well being and restoration ecology and creative conservation finally in part 5 the tasks for urban ecologists in optimising and sustaining urban ecosystems providing for nature in cities adapting to climate change and in developing the urban future in a more sustainable manner are set out within the 16 chapters of the book in which examples from around the world are drawn upon the authors explore current practice and future alternatives set out procedures for ecological assessment and evaluation suggest student activities and discussion topics provide recommended reading and an extensive bibliography the book contains more than 150 tables and over 150 photographs and diagrams

urban ecology is a rapidly growing field of academic and practical significance urban ecologists have published several conference proceedings and regularly contribute to the ecological architectural planning and geography literature however important papers in the field that set the foundation for the discipline and illustrate modern approaches from a variety of perspectives and regions of the world have not been collected in a single accessible book foundations of urban ecology does this by reprinting important european and american publications filling gaps in the published literature with a few targeted original works and translating key works originally published in german this edited volume will provide students and professionals with a rich background in all facets of urban ecology the editors emphasize the drivers patterns processes and effects of human settlement the papers they synthesize provide readers with a broad understanding of the local and global aspects of settlement through traditional natural and social science lenses this interdisciplinary vision gives the reader a comprehensive view of the urban ecosystem by introducing drivers patterns processes and effects of human settlements and the relationships between humans and other animals plants ecosystem processes and abiotic conditions the reader learns how human institutions health and preferences influence and are influenced by the others members of their shared urban ecosystem

brings together an international team of leading scientists to discuss our current understanding of all aspects of urban environments from the biology of the organisms that inhabit them to the diversity of ecosystem services and human social issues encountered within urban landscapes

the study green jobs in the forest sector provides an overview of existing green forest jobs and identifies possible areas for future activities and jobs in the forest sector and may serve as starting point for further analysis and discussion on the future of green forest jobs it offers a framework for classifying green forest jobs under seven thematic work areas outlined in the seven main sections of the study with a particular focus on major trends needs and challenges as well as opportunities and prospects for the forest sector the findings suggest that to promote green jobs in the forest sector it is key to i look at forest ecosystem

services management as the frame for green forest jobs ii recognize the progress made in the development of green forest jobs and to identify avenues for the future iii enhance the public perception of jobs in the forest sector iv revise existing curricula and develop new ones for catering to the needs of the sector to close the skills gaps and v to facilitate an inclusive transition to green economy through training and support

provides an overview of international developments in urban ecology with many examples from cities worldwide in addition this book presents a unique exchange of experiences and ideas with a focus on cooperation between researchers and those involved in putting ideas into practice topics include aims and standards for ecological cities the integration of ecological economic social and cultural aspects land use as a controlling factor ecologically responsible mobility and the integration of nature and landscape into urban development

this second edition covers recent developments around the world with contributors from 33 different countries it widens the handbook's scope by including ecological design consideration of cultural dimensions of the use and conservation of urban nature the roles of government and civil society and the continuing issues of equity and fairness in access to urban greenspaces new features include an emphasis on the biophilic design of homes and workplaces demonstrating the value of nature in order to counter the still prevalent attitude among many developers that nature is a constraint rather than a value the volume explores great practical achievements that have occurred since the first edition with many governments increasingly recognizing and legislating on urban nature and green infrastructure matters since cities play a major role in adapting to change particularly to climate crisis new topics such as the ecological role of light at night and human microbiota in the urban ecosystem are introduced additional attention is given to food production in cities particularly the multiple roles of urban agriculture and household gardens in different contexts from wealthy communities to the poorest informal settlements in deprived communities the emphasis is on demonstrating what can be achieved and what is already being done the book aims to help scholars and graduate students by providing an invaluable and up to date guide to current urban ecological thinking across the range of disciplines such as geography ecology environmental science studies planning and urban studies that converge in the study of towns and cities and urban design and living it will also assist practitioners and civil society members in discovering the ways different specialists and thinkers approach urban nature

provides an accessible introduction to urban ecology using established ecological theory to identify generalities in the complexity of urban environments examines the bio physical processes of urbanization and how these influence the dynamics of urban populations communities and ecosystems explores the ecology of humans in cities discusses practical strategies for conserving biodiversity and maintaining ecosystem services in urban environments includes case studies with questions to improve retention and understanding

in this book experts engage in an extended dialogue arguing for a comprehensive view of sustainability they emphasize the constraints imposed by the relationships among the components for example how the need for clean easily accessible water intersects with the need for the energy required to provide it this book urges a transformation in the way we view sustainability a transformation that is necessary

if we are to plan responsibly for a more sustainable world book jacket

this book is about the plants and animals of urban areas not the urban fringe not encapsulated countryside but those parts of towns where man's impact is greatest the powerful anthropogenic influences that operate in cities have until recently rendered them unattractive to ecologists who find the high proportion of exotics and mixtures of planted and spontaneous vegetation bewildering they are also unused to considering fashion taste mowing machines and the behaviour of dog owners as habitat factors i have always maintained however and i hope this book demonstrates that there are as many interrelationships to be uncovered in a flower bed as in a field in a cemetery as on a sand dune and due to the well documented history of urban sites together with the strong effects of management they are frequently easier to interpret than those operating in more natural areas the potential of these communities as rewarding areas for study is revealed in the literature on the pests of stored products urban foxes and birds the journals of local natural history societies have also provided a rich source of material as amateurs have never been averse to following the fortunes of their favourite groups into the heart of our cities it is predictable that among the few professionals to specialize in this discipline have been those enclosed in west berlin who must be regarded as among the leading exponents of urban ecology

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