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# From Eco Cities To Living Machines Principles Of Ecological Design

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Healthy Cities

Eco-Cities and Green Transport

Defining, Planning, and Creating a Thriving Future

Sustainability as an Object of Desire

Authenticity, Ambition and Dream

Improving Human Development with Finite Resources

Ecological Cities as Economic Cities

Why Living Smaller, Living Closer, and Driving Less Are the Keys to Sustainability

The Untapped Potential of Big Data Analytics and Context-Aware Computing for  
Advancing Sustainability

Sustainable Communities Design Handbook

Resilient Sustainable Cities

Ecological Design, Tenth Anniversary Edition

EcoCities

A Planning Guide

Southern Innovator Magazine Issue 5: Waste and Recycling  
Bioshelters, Ocean Arks, City Farming  
Towards a Liveable and Sustainable Urban Environment  
Smart Sustainable Cities of the Future  
Concepts and Strategies for Eco-city Development  
Surveillance, Locative Media and Global Networks  
A Future  
Principles of Ecological Design  
A compilation of documents from the magazine's recent years  
China's Eco-city Construction  
Can It Really Work?  
Eco-Cities  
Analysis and Assessment of Some Chinese Cities in 2008  
Building the Bridge to Socially Just and Ecologically Sustainable Cities  
Enabling Eco-Cities  
Principles and Practices  
An Annotated Bibliography  
Concepts, Challenges and Practice  
The Development of Eco Cities in China  
The Promise Of Ecological Design

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## **ASHTYN BUCK**

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**Healthy Cities** CRC Press  
Records the institute's  
pioneering work in  
bioshelters,  
aquacommunities, wind-  
powered refrigeration,

and reclamation of desert  
lands  
*Eco-Cities and Green  
Transport* Island Press  
Most of the world's  
population now lives in  
cities. So if we are to  
address the problems of  
environmental  
deterioration and peak oil  
adequately, the city has  
to be a major focus of  
attention. EcoCities is

about re-building cities  
and towns based on  
ecological principles for  
the long term  
sustainability, cultural  
vitality and health of the  
Earth's biosphere. Unique  
in the literature is the  
book's insight that the  
form of the city really  
matters-and that it is  
within our ability to  
change it, and crucial that

we do. Further, that the ecocity within its bioregion is comprehensible and doable, and can produce a healthy and potentially happy future. EcoCities describes the place of the city in evolution, nature and history. It pays special attention to the key question of accessibility and transportation, and outlines design principles for the ecocity. The reader is encouraged to plunge in to its economics and politics: the kinds of businesses, planning and

leadership required. The book then outlines the tools by which a gradual transition to the ecocity could be accomplished. Throughout, this new edition is generously illustrated with the author's own inspired visions of what such rebuilt cities might actually look like. *Defining, Planning, and Creating a Thriving Future* Island Press  
This book contains papers presented at the International Conference on Coastal Cities and their Sustainable Future. First

held in 2015, the conference evolved from a series of conferences on coastal processes, sustainable development, and city sustainability that began in 1992. The growth of world population and the preference for living in coastal areas has resulted in their ever-increasing development. Coastal areas are the most common destination which brings in economic growth but implies additional urban development and increases the need for

resources, infrastructure and services. The activities common to coastal cities require the development of well-planned and managed urban environments, not only for reasons of efficiency and economics, but also to avoid inflicting environmental degradation and the resultant deterioration of quality of life and human health. To resolve these problems it is necessary to consider coastal cities as dynamic complex systems which need energy, water, food and

other resources in order to work and generate diverse activities, with the aim of offering a socioeconomic climate and better quality of life. As a consequence, it is essential to integrate the management and sustainable development of coastal cities with science, technology, architecture, socio-economics and planning all collaborating to provide support to decision makers. Because of the complex nature of such integrated planning, the support of

computational models is essential in order for planners to explore various options and to forecast future services and plans. These models seek to simulate the dynamic of coastal cities leading to potential solutions. The multidisciplinary papers in the book examine some of the possible models and potential solutions. Contents include topics such as: Landscape and urban planning and design; The coastal city and its environs; Infrastructures and eco-

architecture; City heritage and regeneration; Urban transport and communications; Commercial ports, fishing and sports harbours; Energy systems; Water resources management; City/Waterfront interaction; Coastal city beaches; Quality of life and city leisure; Tourism and the city; Coastal processes; Water pollution; Air pollution; City waste management; Acoustical and thermal pollution; Coastal risk assessment; Coastal flooding; Landslides;

Emergency plans and evacuation systems; Health services management; Intercity issues; Socio-economic issues; Legal aspects; Modelling and simulation of coastal city systems. Sustainability as an Object of Desire New Society Publishers  
A sustainable city has been defined in many ways. Yet, the most common understanding is a vision of the city that is able to meet the needs of the present without compromising the ability of future generations to

meet their own needs. Central to this vision are two ideas: cities should meet social needs, especially of the poor, and not exceed the ability of the global environment to meet needs. After Sustainable Cities critically reviews what has happened to these priorities and asks whether these social commitments have been abandoned in a period of austerity governance and climate change and replaced by a darker and unfair city. This book provides the first

comprehensive and comparative analysis of the new eco-logics reshaping conventional sustainable cities discourse and environmental priorities of cities in both the global north and south. The dominant discourse on sustainable cities, with a commitment to intergenerational equity, social justice and global responsibility, has come under increasing pressure. Under conditions of global ecological change, international financial and

economic crisis and austerity governance new eco-logics are entering the urban sustainability lexicon – climate change, green growth, smart growth, resilience and vulnerability, ecological security. This book explores how these new eco-logics reshape our understanding of equity, justice and global responsibility, and how these more technologically and economically driven themes resonate and dissonate with conventional sustainable

cities discourse. This book provides a warning that a more technologically driven and narrowly constructed economic agenda is driving ecological policy and weakening previous commitment to social justice and equity. After Sustainable Cities brings together leading researchers to provide a critical examination of these new logics and identity what sort of city is now emerging, as well as consider the longer-term implication on sustainable cities

research and policy.

*Authenticity, Ambition  
and Dream* Penguin

This book introduces the concept of Eco-civilization, highlights the construction and development of eco-cities in China, and assesses the achievements and shortcomings of China's eco-city construction projects. As both China and Western countries face an impending ecological crisis, responding to that crisis is a common challenge for all human beings. There is an overwhelming

consensus among Chinese scholars that in order to successfully address the ecological crisis successfully we must establish an eco-civilization, and one important step toward accomplishing that goal is to plan and construct eco-cities.

*Improving Human  
Development with Finite  
Resources* Eco-Home  
Media

An updated edition of the landmark classic by the leader of the ecocity movement  
*Ecological Cities as*

*Economic Cities* World Bank Publications  
Living sustainably is not just about preserving the wilderness or keeping nature pristine. The transition to a green economy depends on cities. Economic, technological, and cultural forces are moving people out of rural areas and into urban areas. If we are to avert climate catastrophe, we will need our cities to coexist with nature without destroying it. Urbanization holds the key to long-term sustainability, reducing



per capita environmental impacts while improving economic prosperity and social inclusion for current and future generations. The Sustainable City provides a broad and engaging overview of the urban systems of the twenty-first century. It approaches urban sustainability from the perspectives of behavioral change, organizational management, and public policy, looking at case studies of existing legislation, programs, and public-private partnerships that strive to

align modern urban life and sustainability. The book synthesizes the disparate strands of sustainable city planning in an approachable and applicable guide that highlights how these issues touch our lives on a daily basis, including the transportation we take, the public health systems that protect us, where our energy comes from, and what becomes of our food waste. This second edition of The Sustainable City dives deeper into the financing of sustainable infrastructure and

initiatives and puts additional emphasis on the roles that individual citizens and varied stakeholders can play. It also reviews current trends in urban inequality and discusses whether a model of sustainability that embraces a multidimensional approach to development and a multistakeholder approach to decision making can foster social inclusion. It features many more examples and new international case studies spanning the globe. *Why Living Smaller, Living*

*Closer, and Driving Less Are the Keys to Sustainability* Routledge  
 This book shows what role nature can play in a city and how this can make it a better place for people to live. People, planners, designers and politicians are working towards the development of green cities. Some cities are already promoted as green cities, while others are on their way to become one. But their goals are often unclear and can include different facets. Presenting contributions from world

leading researchers in the field of urban ecology, the editors provide an interdisciplinary overview of best practices and challenges in creating green cities. They show examples of how to build up these cities from bits and pieces to districts and urban extensions. Each example concludes with a summary of the collected knowledge, the learning points and how this can be used in other places. The best practices are collected from around the world - Europe, Australia, America and Asia. The

new dynamic urban development of Asia is illustrated by case studies from China and the Indian subcontinent. The reader will learn which role nature can play in green cities and what the basic requirements are in terms of culture, pre-existing nature conditions, existing urban surroundings, history, design and planning.

**The Untapped Potential of Big Data Analytics and Context-Aware Computing for Advancing**

**Sustainability** Island Press

This book is a point of departure for cities that would like to reap the many benefits of ecological and economic sustainability. It provides an analytical and operational framework that offers strategic guidance to cities on sustainable and integrated urban development.

**Sustainable Communities Design Handbook**

Routledge  
Launched in May 2011,  
the new global magazine

Southern Innovator is about the people across the global South shaping our new world, eradicating poverty and working towards the achievement of the Millennium Development Goals (MDGs). They are the innovators. Issue 1 covered the theme of mobile phones and information technology. Issue 2 covered the theme of youth and entrepreneurship. Issue 3 covered the theme of agribusiness and food security. Issue 4 covered the theme of cities and

urbanization. Issue 5 covers the theme of waste and recycling. Follow the magazine on Twitter @SouthSouth1. If you would like hard copies of the magazine for distribution, then please contact the United Nations Office for South-South Cooperation in New York, USA ([www.southerninnovator.org](http://www.southerninnovator.org)). Learn about the Global South-South Development Expo here: [www.southsouthexpo.org](http://www.southsouthexpo.org). Also contact us about opportunities to sponsor the magazine here:

southerninnovator@yahoo.co.uk. Sponsors help us to print and distribute more copies.

**Resilient Sustainable Cities** Scarecrow Press Launched in May 2011, the new global magazine Southern Innovator is about the people across the global South shaping our new world, eradicating poverty and working towards the achievement of the Millennium Development Goals (MDGs). They are the innovators. Issue 1 covered the theme of mobile phones and

information technology. Issue 2 covered the theme of youth and entrepreneurship. Issue 3 covered the theme of agribusiness and food security. Issue 4 covered the theme of cities and urbanization. Issue 5 covers the theme of waste and recycling. **Ecological Design, Tenth Anniversary Edition** Springer Nature A political scientist and an urban architect explore China's odyssey to become an ecological civilization and transform its massive,

unsustainable, urbanization process into one that creates hundreds of eco-cities. The resulting *From Eco-Cities to Sustainable City-Regions* is the first book-length study combining analysis of politics and power, urban design and planning issues derived from the co-authors' interdisciplinary research, and on-site fieldwork from their political science and architectural area specialties. **EcoCities** IGI Global Ecological Design is a landmark volume that

helped usher in an exciting new era in green design and sustainability planning. Since its initial publication in 1996, the book has been critically important in sparking dialogue and triggering collaboration across spatial scales and design professions in pursuit of buildings, products, and landscapes with radically decreased environmental impacts. This 10th anniversary edition makes the work available to a new generation of practitioners and thinkers concerned with moving

our society onto a more sustainable path. Using examples from architecture, industrial ecology, sustainable agriculture, ecological wastewater treatment, and many other fields, *Ecological Design* provides a framework for integrating human design with living systems. Drawing on complex systems, ecology, and early examples of green building and design, the book challenges us to go further, creating buildings, infrastructures, and landscapes that are

truly restorative rather than merely diminishing the rate at which things are getting worse. *A Planning Guide*  
Routledge  
Current images of sustainability are often designed to instil fear and force change, not because we believe in it, but because we fear the consequences of inaction. Moving away from negative portrayals of sustainability, this book identifies the factors that motivate people to aspire towards sustainable living. It introduces the

notion of sustainability as an "object of desire" that will allow people not to be scared of the future but rather to dream about it and look forward to a better quality of life. Tracing the history of major changes in our society that have dramatically altered our perceptions, beliefs and attitudes about sustainability, the book analyses the role of communications in persuading people of the benefits of sustainable living. It describes our current desires and

dreams and explains why we need to change. Finally, the book suggests what could be done to not only make sustainability an object of desire, but also introduce hopes and dreams for a better future into our everyday lives. This inspiring and interdisciplinary book provides innovative insights for researchers, students and professionals in a range of disciplines, in particular environment and sustainability, sustainable marketing and advertising, and

psychology. *Southern Innovator Magazine Issue 5: Waste and Recycling* Edward Elgar Publishing  
As cities undergo vast changes due to industrialization, urbanization, and globalization, environmental considerations assume a growing importance in the urban planning processes of an increasing number of governments around the world. Several cities and regions around the world have already enacted policies that

signal the emergence of a paradigm of sustainability in eco-cities planning. Providing an overview of urban ecosystem structure, function, and change, *Eco-Cities: A Planning Guide* addresses how to successfully accomplish eco-city planning that meets government requirements. It adds a new dimension to the understanding and application of the concept of urban sustainability, based on hypotheses about feedback between social and biogeophysical

processes. Emphasizing integration, the first part of the book discusses various aspects of planning theory. It presents three innovative theories for socioeconomic models: a theory on the locational choices made by households and firms, an urban version of the stream continuum concept, and an application of metacommunity theory to the fragmented urban biota. These theories raise new urban planning questions and stimulate

integrated modeling. The book also introduces urban planning modeling that uses existing social, vegetation, ecohydrological, and ecosystem service modules but is refined and operated for enhanced cross-disciplinary integration and prediction. The second part of the book consists of several case studies of Chinese eco-cities covering a majority of the urban development patterns that offer in-depth examples of planning practices

currently in use. Drawing on experimentation, comparison, long-term measurement, and modeling, this fascinating guide helps readers better understand eco-cities and eco-landscapes as integrated, spatially extensive, complex adaptive systems. It lays a solid foundation for engagement between urban planners, researchers, educators, policy makers, and citizens as they work to adapt to changing environmental, social, and economic conditions.

### **Bioshelters, Ocean Arks, City Farming**

Springer

From *Eco-cities to Living Machines* presents the ecologically-based working designs and prototypes of biologist John Todd and writer and environmental activist Nancy Todd. Since 1969 with the founding of New Alchemy Institute on Cape Cod, the Todds have become known worldwide for their leadership in the restoration of pure water, bioremediation of wild aquatic environments, food

production, and urban design. In this new book the Todds further develop the idea of Eco-cities, designs for integrating agriculture and flowing pure water into green urban settings and introduce *Living Machines*, a family of technologies for purifying wastewaters to tertiary quality effluent without chemicals. Provocative and grounded firmly in the principles of biodiversity, the Todds' work encompasses site-specific technological interventions and



systems-wide ecological thinking. It has already influenced a new generation of ecological planners and designers, environmental economists, and systems-based engineers working to change the way we utilize production, technology, water, and energy.

*Towards a Liveable and Sustainable Urban Environment* Springer

Nature

Building on the success of its second edition, the third edition of the Sustainable Urban

Development Reader provides a generous selection of classic and contemporary readings giving a broad introduction to this topic. It begins by tracing the roots of the sustainable development concept in the nineteenth and twentieth centuries, before presenting readings on a number of dimensions of the sustainability concept. Topics covered include land use and urban design, transportation, ecological planning and restoration, energy and

materials use, economic development, social and environmental justice, and green architecture and building. All sections have a concise editorial introduction that places the selection in context and suggests further reading. Additional sections cover tools for sustainable development, international sustainable development, visions of sustainable community and case studies from around the world. The book also includes educational exercises for individuals, university

classes, or community groups, and an extensive list of recommended readings. The anthology remains unique in presenting a broad array of classic and contemporary readings in this field, each with a concise introduction placing it within the context of this evolving discourse. The Sustainable Urban Development Reader presents an authoritative overview of the field using original sources in a highly readable format for university classes in urban

studies, environmental studies, the social sciences, and related fields. It also makes a wide range of sustainable urban planning-related material available to the public in a clear and accessible way, forming an indispensable resource for anyone interested in the future of urban environments.

**Smart Sustainable Cities of the Future**

Columbia University Press  
To promote China's sustainable city construction and development, this Brief

has preliminarily used an assessment indicator system and development index of a sustainable city, based on a summary and analysis of the existing Sustainable City theories and practices both at home and abroad. Meanwhile, mainly based on the data from 2008, this Brief has made a tentative assessment of the development level of Sustainable City in some major Chinese cities. *Concepts and Strategies for Eco-city Development*  
IGI Global  
This book is intended to

help explore the field of smart sustainable cities in its complexity, heterogeneity, and breadth, the many faces of a topical subject of major importance for the future that encompasses so much of modern urban life in an increasingly computerized and urbanized world. Indeed, sustainable urban development is currently at the center of debate in light of several ICT visions becoming achievable and deployable computing paradigms, and shaping the way cities will evolve

in the future and thus tackle complex challenges. This book integrates computer science, data science, complexity science, sustainability science, system thinking, and urban planning and design. As such, it contains innovative computer-based and data-analytic research on smart sustainable cities as complex and dynamic systems. It provides applied theoretical contributions fostering a better understanding of such systems and the

synergistic relationships between the underlying physical and informational landscapes. It offers contributions pertaining to the ongoing development of computer-based and data science technologies for the processing, analysis, management, modeling, and simulation of big and context data and the associated applicability to urban systems that will advance different aspects of sustainability. This book seeks to explicitly bring together the smart city and sustainable city

endeavors, and to focus on big data analytics and context-aware computing specifically. In doing so, it amalgamates the design concepts and planning principles of sustainable urban forms with the novel applications of ICT of ubiquitous computing to primarily advance sustainability. Its strength lies in combining big data and context-aware technologies and their novel applications for the sheer purpose of harnessing and leveraging the disruptive and synergetic effects of ICT

on forms of city planning that are required for future forms of sustainable development. This is because the effects of such technologies reinforce one another as to their efforts for transforming urban life in a sustainable way by integrating data-centric and context-aware solutions for enhancing urban systems and facilitating coordination among urban domains. This timely and comprehensive book is aimed at a wide audience across science, academia

industry, and policymaking. It provides the necessary material to inform relevant research communities of the state-of-the-art research and the latest development in the area of smart sustainable urban development, as well as a valuable reference for planners, designers, strategists, and ICT experts who are working towards the development and implementation of smart sustainable cities based on big data analytics and context-aware computing.

**Surveillance, Locative  
Media and Global  
Networks** Random House  
(NY)

From urban design that  
suits the local landscape

to zero-carbon living, this  
fascinating book looks at  
how cities around the  
world are adapting to  
environmental change.

Readers are presented  
with real-life, eco-city  
solutions to issues such as  
water use in times of  
drought, and why green  
spaces matter.

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