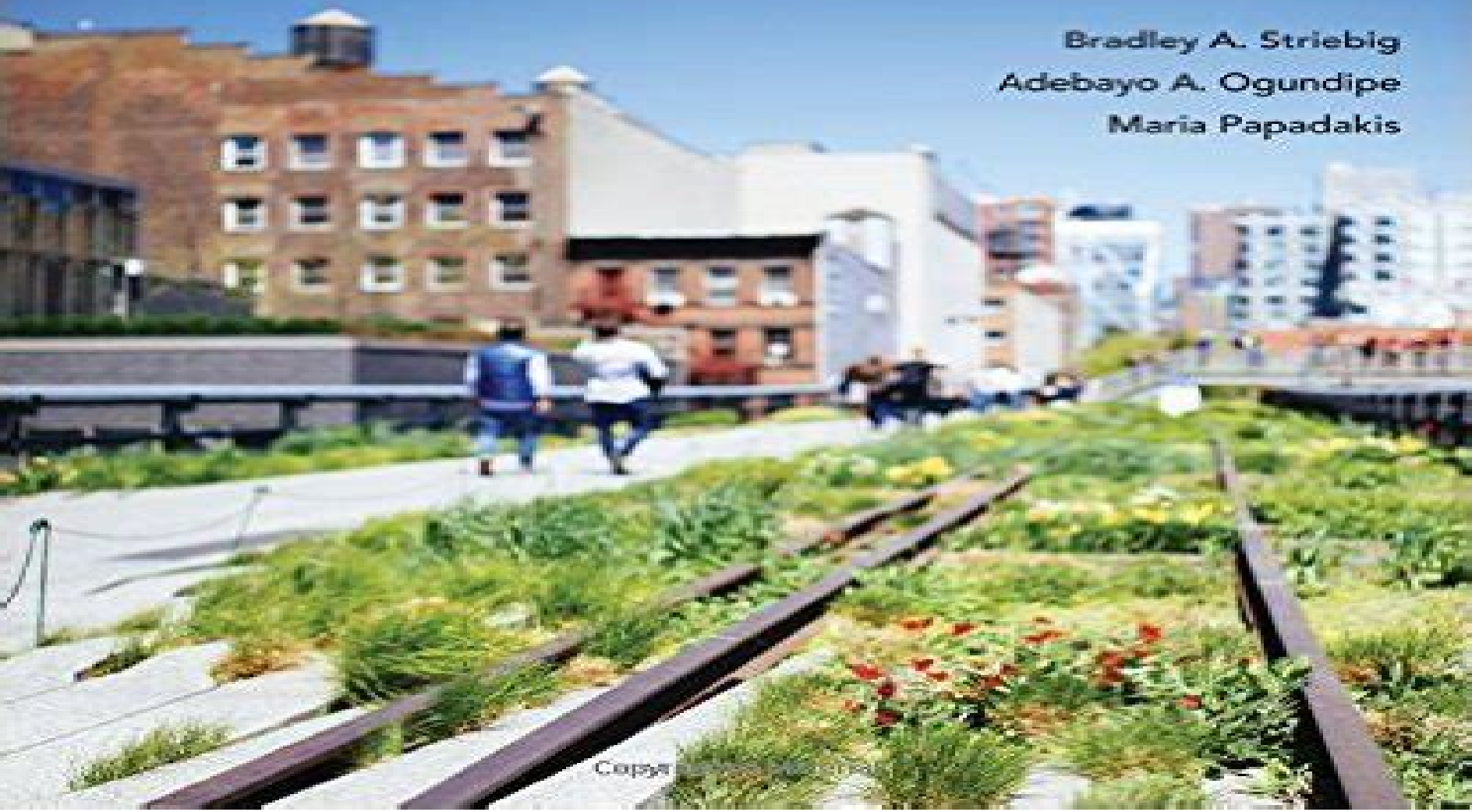


ENGINEERING APPLICATIONS IN

SUSTAINABLE DESIGN and DEVELOPMENT

Bradley A. Striebig
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Engineering Applications In Sustainable Design And Development

Daniel A. Vallero, Chris Brasier



Engineering Applications In Sustainable Design And Development

Engineering Applications in Sustainable Design and Development Bradley Striebig, Adebayo A. Ogundipe, Maria Papadakis, 2015-01-01 ENGINEERING APPLICATIONS IN SUSTAINABLE DESIGN AND DEVELOPMENT is an invaluable resource for today's engineering student. Focusing on pressing contemporary issues, the text puts product design in the context of models of sustainability. Relevant case studies from across the globe will be of interest to engineers in training and active learning exercises in each chapter help students learn to apply theory to real world situations. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

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Sustainability in Engineering Design Anthony Johnson, Andy Gibson, 2014-02-11 Designed for use in engineering design courses and as a reference for industry professionals learning sustainable design concepts and practical methods. Sustainability in Engineering Design focuses on designers as the driving force behind sustainable products. This book introduces sustainability concepts and explains the application of sustainable methods to the engineering design process. The book also covers important design topics such as project and team management, client management, performance prediction, and the social and environmental effects of sustainable engineering design. These concepts and methods are supported with a wealth of worked examples, discussion questions, and primary case studies to aid comprehension. Applies research-based methods to achieve real world results for rapidly evolving industry trends. Focuses on design engineers as the starting point of creating sustainable design. Provides practical methods and design tools to guide engineering designers in creating sustainably designed and engineering products. Incorporates all aspects of sustainable engineering design, including the material selection, production, and marketing of products. Includes cutting edge sustainable design model case studies based on the authors' own research and experiences.

Sustainable Infrastructure S. Bry Sarte, 2010-09-23 As more factors, perspectives, and metrics are incorporated into the planning and building process, the roles of engineers and designers are increasingly being fused together. Sustainable Infrastructure explores this trend with an in-depth look at sustainable engineering practices in an urban design as it involves watershed master planning, green building, optimizing water reuse, reclaiming urban spaces, green streets initiatives, and sustainable master planning. This complete guide provides guidance on the role of creative thinking and collaborative team building in meeting solutions needed to affect a sustainable transformation of the built environment.

Sustainable Design and Build Md. Faruque Hossain, 2018-09-12 Sustainable Design and Build provides a complete reference for engineers and scientists who want to conduct sustainability research The book begins with a rudimentary discussion of environmental pollution and energy that is followed by their applications for solving problems in construction processes and practices governing advanced building design infrastructure and transportation and water and sewage Other topics include engineering invisible roads and bridges smart building technology building information modeling energy modeling resilience in urban and rural development engineering invisible roads and bridges zero emission vehicles and flying transportation technology This book presents a valuable guide to sustainable design and construction processes and methods Covers the latest research in the utilization of renewable energy and the implementation in construction and building system design Includes a detailed discussion on combined technology applications of energy gas and water Covers advanced methods and technologies for constructing sustainable transportation systems including roads bridges tunnels and hardscapes

Environmental Engineering and Sustainable Design Bradley A. Striebig, Maria Papadakis, Adebayo A. Ogundipe, Lauren G. Heine, 2022
Includes bibliographical references and index

Sustainable Design Through Process Integration Mahmoud M. El-Halwagi, 2017-08-08 Sustainable Design through Process Integration Fundamentals and Applications to Industrial Pollution Prevention Resource Conservation and Profitability Enhancement Second Edition is an important textbook that provides authoritative comprehensive and easy to follow coverage of the fundamental concepts and practical techniques on the use of process integration to maximize the efficiency and sustainability of industrial processes The book is ideal for adoption in process design and sustainability courses It is also a valuable guidebook to process chemical and environmental engineers who need to improve the design operation performance and sustainability of industrial plants The book covers pressing and high growth topics including benchmarking process performance identifying root causes of problems and opportunities for improvement designing integrated solutions enhancing profitability conserving natural resources and preventing pollution Written by one of the world's foremost authorities on integrated process design and sustainability the new edition contains new chapters and updated materials on various aspects of process integration and sustainable design The new edition is also packed with numerous new examples and industrial applications Allows the reader to methodically develop rigorous targets that benchmark the performance of industrial processes then develop cost effective implementations Contains state of the art process integration and improvement approaches and techniques including graphical algebraic and mathematical methods Covers topics and applications that include profitability enhancement mass and energy conservation synthesis of innovative processes retrofitting of existing systems design and assessment of water energy and water energy nexus systems and reconciliation of various sustainability objectives

Engineering for Sustainable Development Wahidul K. Biswas, Michele John, 2022-10-03 ENGINEERING FOR SUSTAINABLE DEVELOPMENT AN AUTHORITATIVE AND COMPLETE GUIDE TO SUSTAINABLE DEVELOPMENT ENGINEERING In Engineering for Sustainable Development Theory and Practice a team of distinguished academics deliver a comprehensive education focused discussion on sustainable engineering bridging the gap between theory and practice by drawing upon illuminating case studies and the latest cutting edge research In the book readers will find an introduction to the sustainable development agenda and sustainable technology development as well as practical methods and tools for the development and implementation of sustainable engineering solutions The book highlights the critical role of engineers and the engineering profession in providing sustainability leadership as well as important future focused solutions to support engineering global sustainable development The book offers a wide range of civil mechanical electrical and chemical engineering industry applications Readers will also benefit from A thorough introduction to contemporary sustainability challenges in the engineering discipline Comprehensive discussions of sustainability assessment tools including triple bottom line assessment TBL and the environmental life cycle assessment LCA In depth examinations of sustainable engineering strategies including cleaner production and eco efficiency methods and environmental management systems Detailed review of green engineering principles and industrial symbiosis in engineering application A link between product stewardship and the design for the environment Perfect for graduate and senior undergraduate students in any engineering discipline Engineering for Sustainable Development Theory and Practice will also earn a place in the libraries of consultants and engineers in industry and government with a personal or professional interest in sustainability management

Sustainable Development in Practice Adisa Azapagic, Slobodan Perdan, 2011-06-28 Sustainable Development in Practice Case Studies for Engineers and Scientists Second Edition explores the concept of sustainable development and its implications for science and engineering It looks at how sustainability criteria can be combined with traditional scientific and engineering considerations to design and operate industrial systems in a more sustainable manner Taking a life cycle approach to addressing economic environmental and social issues the book presents a series of new practical case studies drawn from a range of sectors including mining energy food buildings transport waste and health Written in an accessible style the book opens with a general introduction to the concept of sustainable development and explores its practical implications for technical experts Recognising that practical application of sustainable development depends on the context the second part of the book is devoted to case studies The case studies explore scientific and technical aspects alongside relevant environmental economic and social issues The key features of this completely revised and updated second edition include Twelve new chapters including the case studies on nuclear energy biofuels aviation buildings urban transport food sanitation and health Six completely revised chapters Coverage of a wide range of sustainability issues in both developed and developing countries Integration of scientific and technical aspects with economic environmental and social considerations Discussion of policy implications Communication with the non engaging and non scientific audience Considered essential reading for all engineers and scientists concerned with sustainable development Sustainable Development in Practice Case Studies for Engineers and Scientists Second Edition also provides key reading and learning materials for undergraduate and postgraduate science and engineering students

Engineering and Sustainable Community Development Juan Lucena, Jen Schneider, Jon A. Leydens, 2010-10-10 This book Engineering and Sustainable Community Development presents an overview of engineering as it relates to humanitarian engineering service learning engineering or engineering for community development often called sustainable community development SCD The topics covered include a history of engineers and development the problems of using industry based practices when designing for communities how engineers can prepare to work with communities and listening in community development It also includes two case studies one of engineers developing a windmill for a community in India and a second of an engineer mapping communities in Honduras to empower people to use water effectively and student perspectives and experiences on one curricular model dealing with community development Table of Contents Introduction Engineers and Development From Empires to Sustainable Development Why Design for Industry Will Not Work as Design for Community Engineering with Community Listening to Community ESCD Case Study 1 Sika Dhari s Windmill ESCD Case Study 2 Building Organizations and Mapping Communities in Honduras Students Perspectives on ESCD A Course Model Beyond Engineers and Community A Path Forward

Sustainable Design Daniel A. Vallero, Chris Brasier, 2008-04-25 Scientific Principles to Guide Sustainable Design Decisions From thermodynamics to fluid dynamics to computational chemistry this book sets forth the scientific principles underlying the need for sustainable design explaining not just the hows of sustainable design and green engineering but also the whys Moreover it provides readers with the scientific principles needed to guide their own sustainable design decisions Throughout the book the authors draw from their experience in architecture civil engineering environmental engineering planning and public policy in order to build an understanding of the interdisciplinary nature of sustainable design Written to enable readers to take a more scientific approach to sustainable design the book offers many practical features including Case studies presenting the authors firsthand accounts of actual green projects Lessons learned from Duke University s Smart House Program that demonstrate the concepts and techniques discussed in the book Exercises that encourage readers to use their newfound knowledge to solve green design problems Figures tables and sidebars illustrating key concepts and summarizing important points For architects designers and engineers this book enables them to not only implement green design methods but also to choose these methods based on science With its many examples case studies and exercises the book is also an ideal textbook for students in civil and environmental engineering construction and architectural engineering

Whole System Design Peter Stansinoupoulos, Michael H Smith, Karlson Hargroves, Cheryl Desha, 2013-01-11 Whole System Design is increasingly being seen as one of the most cost effective ways to both increase the productivity and reduce the negative environmental impacts of an engineered system A focus on design is critical as the output from this stage of the project locks in most of the economic and environmental performance of the designed system throughout its life which can span from a few years to many decades Indeed it is now widely acknowledged that all designers particularly engineers architects and industrial designers need to be able to understand and implement a whole system design approach This book provides a clear design methodology based on leading efforts in the field and is supported by worked examples that demonstrate how advances in energy materials and water productivity can be achieved through applying an integrated approach to sustainable engineering Chapters 1 5 outline the approach and explain how it can be implemented to enhance the established Systems Engineering framework Chapters 6 10 demonstrate through detailed worked examples the application of the approach to industrial pumping systems passenger vehicles electronics and computer systems temperature control of buildings and domestic water systems Published with The Natural Edge Project the World Federation of Engineering Organizations UNESCO and the Australian Government

Sustainability in the Design, Synthesis and Analysis of Chemical Engineering Processes Gerardo Ruiz Mercado, Heriberto Cabezas, 2016-06-09 Sustainability in the Design Synthesis and Analysis of Chemical Engineering Processes is an edited collection of contributions from leaders in their field It takes a holistic view of sustainability in chemical and process engineering design and incorporates economic analysis and human dimensions Ruiz Mercado and Cabezas have brought to this book their experience of researching sustainable process design and life cycle sustainability evaluation to assist with development in government industry and academia This book takes a practical step by step approach to designing sustainable plants and processes by starting from chemical engineering fundamentals This method enables readers to achieve new process design approaches with high influence and less complexity It will also help to incorporate sustainability at the early stages of project life and build up multiple systems level perspectives Ruiz Mercado and Cabezas book is the only book on the market that looks at process sustainability from a chemical engineering fundamentals perspective Improve plants processes and products with sustainability in mind from conceptual design to life cycle assessment Avoid retro fitting costs by planning for sustainability concerns at the start of the design process Link sustainability to the chemical engineering fundamentals

Environmental Engineering: Sustainable Design and Technology Katie Nixon, 2019-06-04 As a branch of engineering environmental engineering refers to the science of applying different engineering and scientific principles in order to protect humans from the harmful effects of environmental factors The field also encapsulates the improvement of environment quality and protection of the environment The issues of human and animal waste control asset protection and energy preservation are vital to this field Some of the areas of focus in environmental engineering are pollution global change solid waste management risk assessment resource recovery etc Sustainable design is one of the solutions to global environmental crisis It deals with the theory and practice of designing objects environment and services in compliance with the principles of economic ecological and social sustainability It may involve innovative practices in the areas of architecture landscape and garden design agriculture and manufacturing besides others This book studies analyzes and upholds the pillars of environmental sustainability and its utmost significance in modern times The objective of this book is to give a general view of the different areas of environmental engineering and their applications It will serve as a reference to a broad spectrum of readers

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Sustainable Design Basics Sharon B. Jaffe, Rob Fleming, Mark Karlen, Saglinda H Roberts, 2020-02-26 An accessible climate diverse guide that transforms readers from sustainable design novices to whole solution problem solvers *Sustainable Design Basics* is a student friendly introduction to a holistic and integral view of sustainable design Comprehensive in scope this textbook presents basic technical information sustainability strategies and a practical step by step approach for sustainable building projects Clear and relatable chapters illustrate how to identify the factors that reduce energy use solve specific sustainable design problems develop holistic design solutions and address the social and cultural aspects of sustainable design Requiring no prior knowledge of the subject the text s easy to follow methodology leads readers through the fundamental sustainable design principles for the built environment Sustainably constructed and maintained buildings protect the health and improve the productivity of their occupants as well as help to restore the global ecosystem The authors leading practitioners and educators in sustainable design have created a resource that provides a solid introduction to broad level sustainability thinking that students can take forward into their professional practice Topics include space planning for sustainable design integrative and collaborative design standards and rating systems real world strategies to conserve energy and resources through leveraging renewable natural resources and innovative construction techniques and their impact on our environment Usable and useful both in and beyond the classroom this book Covers building location strategies building envelopes and structures integration of passive and active systems green materials and project presentation Examines cultural factors social equity ecological systems and aesthetics Provides diverse student exercises that vary by climate geography setting perspective and typology Features a companion website containing extensive instructor resources *Sustainable Design Basics* is an important resource aimed at undergraduate architecture and interior design students or first year graduate students as well as design professionals wishing to integrate sustainable design knowledge and techniques into their practice

Building Services Engineering Tarik Al-Shemmeri, Neil Packer, 2021 *Building Services Engineering Smart and Sustainable Design for Health and Wellbeing* covers the design practices of existing engineering building services and how these traditional methods integrate with newer smarter developments These new developments include areas such as smart ventilation smart glazing systems smart batteries smart lighting smart soundproofing smart sensors and meters Combined these all amount to a healthier lifestyle for the people living within these indoor climates With over one hundred fully worked examples and tutorial questions *Building Services Engineering Smart and Sustainable Design for Health and Wellbeing* encourages the reader to consider sustainable alternatives within their buildings in order to create a healthier environment for users

Engineering for Sustainability Gerald Jonker, Jan Harmsen, 2012-05-04 Preface 1 Introduction 2 Setting up a design assignment 3 Structuring the sustainability context 4 Creating design solutions 5 Acquiring sustainable design competences

Sustainable Communities Design Handbook Woodrow W. Clark II, 2010-07-03 The objective of Sustainable Communities Design Handbook is to ensure a better quality of life for everyone both now and for generations to come This means creating a better and safer environment internationally through the sustainable use of natural resources encouraging sustainable development which supports a strong economy and ensuring a high quality environment that can be enjoyed by all Sustainable Development Partnerships brings together in one reference today s most cutting edge technologies and methods for creating sustainable communities With this book Environmental Engineers Civil Engineers Architects Mechanical Engineers and Energy Engineers find a common approach to building environmental friendly communities which are energy efficient The five part treatment starts with a clear and rigorous exposition of sustainable development in practice followed by self contained chapters concerning applications Methods for the sustainable use of natural resources in built communities Clearly explains the most cutting edge sustainable technologies Provides a common approach to building sustainable communities Coverage of sustainable practices from architecture to construction

A Handbook of Sustainable Building Design and Engineering Dejan Mumovic, Mat Santamouris, 2013-06-17 The combined challenges of health comfort climate change and energy security cross the boundaries of traditional building disciplines This authoritative collection focusing mostly on energy and ventilation provides the current and next generation of building engineering professionals with what they need to work closely with many disciplines to meet these challenges A Handbook of Sustainable Building Engineering covers how to design engineer and monitor a building in a manner that minimises the emissions of greenhouse gases how to adapt the environment fabric and services of existing and new buildings to climate change how to improve the environment in and around buildings to provide better health comfort security and productivity and provides crucial expertise on monitoring the performance of buildings once they are occupied The authors explain the principles behind built environment engineering and offer practical guidance through international case studies

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