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Sustainable Infrastructure: The Guide To Green Engineering And Design



Synopsis

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 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 creative thinking and collaborative team-building play in meeting solutions needed to affect a sustainable transformation of the built environment.

Book Information

Hardcover: 384 pages

Publisher: Wiley; 1 edition (September 7, 2010)

Language: English

ISBN-10: 0470453613

ISBN-13: 978-0470453612

Product Dimensions: 8.3 x 1 x 9.3 inches

Shipping Weight: 2.2 pounds (View shipping rates and policies)

Average Customer Review: 3.5 out of 5 stars 4 customer reviews

Best Sellers Rank: #708,802 in Books (See Top 100 in Books) #96 in [Books > Engineering & Transportation > Engineering > Design](#) #339 in [Books > Arts & Photography > Architecture > Sustainability & Green Design](#) #492 in [Books > Arts & Photography > Architecture > Landscape](#)

Customer Reviews

A complete guide to integrating sustainable infrastructure strategies into planning and design In an effort to maximize the usability of dwindling resources such as land and water to help humanity strive to reconnect with the natural world, this book advocates a multidisciplinary team approach to design that is not only highly sustainable technologically, but also visually beautiful. Sustainable Infrastructure discusses how engineers are working with other members of the design team to develop a unified strategy that produces the most effective and elegant green alternatives for the revitalization of urban infrastructure. This forward-thinking guide: Contains complete coverage of sustainable infrastructure strategies for watershed master-planning, integrated storm water management, reclaiming urban spaces, and green streets programs Delivers information on how to account for and incorporate systems thinking, material flows, and environmental performance into

projects. Demonstrates how natural spaces are assimilated into the built environment. Offers an international perspective with case studies from around the world. Provides guidance on the role creative thinking and collaborative team-building play in developing the complex solutions needed to affect sustainability. Sustainable Infrastructure takes an in-depth view of the challenges involved in matching artistic impression with engineering principles in a sustainable development context. It examines the innovations in areas such as water resource management, site design, and land planning to help establish the framework for creating the healthy socio-economic environments of tomorrow, while it honors the aesthetic values that celebrate and enhance the human experience.

S. Bry Sartorius, PE, ASCE, LEED AP, founder of the Sherwood Institute and Sherwood Design Engineers, is a leading designer in green and sustainable engineering, and has made significant contributions to contemporary research involving global environmental issues affecting water supply, urban design, material science, and energy use. Bry has built an international reputation by providing engineering services and design solutions that reflect a deep commitment to executing well-planned, sustainable alternatives for communities worldwide.

Not what you expect from a book this price. Print quality is basically like a photocopy. Illustrations are sometimes blurred and are not meant for b&w printing. Awful quality.

I purchased two of these books because both my husband and our son use it for a reference book. They feel it is one of a kind and help them a lot.

This book is very lucidly written. It has concepts that are new and timely, thoughtful, and provocative. The book covers principles of sustainable design, and provides descriptions and source references for projects that have been designed and implemented within sustainable frameworks. A valuable book for practitioners.

This book has really interesting concepts regarding green engineering and planning. It is also very helpful in aiding towards a sustainable environment. Great book!

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