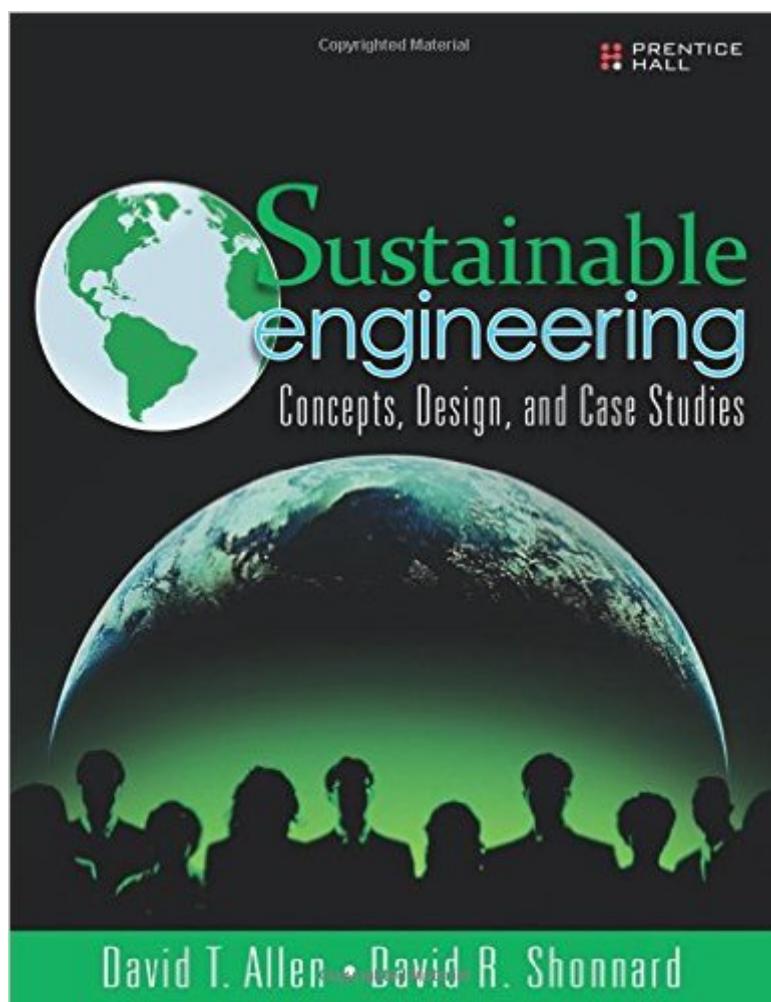


The book was found

# Sustainable Engineering: Concepts, Design And Case Studies



## **Synopsis**

Assessing Engineering Designs for Environmental, Economic, and Social Impact Engineers will play a central role in addressing one of the twenty-first century's key challenges: the development of new technologies that address societal needs and wants within the constraints imposed by limited natural resources and the need to protect environmental systems. To create tomorrow's sustainable products, engineers must carefully consider environmental, economic, and social factors in evaluating their designs. Fortunately, quantitative tools for incorporating sustainability concepts into engineering designs and performance metrics are now emerging. Sustainable Engineering introduces these tools and shows how to apply them. Building on widely accepted principles they first introduced in Green Engineering, David T. Allen and David R. Shonnard discuss key aspects of designing sustainable systems in any engineering discipline. Their powerful, unified approach integrates essential engineering and quantitative design skills, industry perspectives, and case studies, enabling engineering professionals, educators, and students to incorporate sustainability throughout their work. Coverage includes A concise review of the natural resource and environmental challenges engineers face when designing for sustainability Analysis and legislative frameworks for addressing environmental issues and sustainability Methods for identifying green and sustainable materials Principles for improving the sustainability of engineering designs Tools for evaluating sustainable designs and monetizing their benefits

## **Book Information**

Paperback: 240 pages

Publisher: Prentice Hall; 1 edition (December 30, 2011)

Language: English

ISBN-10: 0132756544

ISBN-13: 978-0132756549

Product Dimensions: 6.9 x 0.7 x 9.1 inches

Shipping Weight: 13.6 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars (See all reviews) (1 customer review)

Best Sellers Rank: #150,939 in Books (See Top 100 in Books) #12 in Books > Engineering & Transportation > Engineering > Design #38 in Books > Textbooks > Engineering > Environmental Engineering #60 in Books > Textbooks > Engineering > Chemical Engineering

## **Customer Reviews**

I got this for a college course in sustainable engineering. I like the author's examples. Life Cycle

Assessments are hard to quantify because it's all about where you draw the boundary conditions. I think the author does a great job of not getting too carried away, but including the right amount of components. Also, the book reads very easy, like a book should. Some engineering books read more like technical journal articles. This book starts from the absolute basics and works up from that.

[Download to continue reading...](#)

Sustainable Engineering: Concepts, Design and Case Studies Sustainable Transportation Planning: Tools for Creating Vibrant, Healthy, and Resilient Communities (Wiley Series in Sustainable Design) Sustainable Micro Irrigation: Principles and Practices (Research Advances in Sustainable Micro Irrigation) Tropical Soils: Properties and Management for Sustainable Agriculture (Topics in Sustainable Agronomy) Case Studies In Nursing Ethics (Fry, Case Studies in Nursing Ethics) Nursing Case Studies: 15 Med Surg Case Studies with Rationales Scrumptious & Sustainable Fishcakes: A Collection of the Best Sustainable Fishcake Recipes from Canadian Chefs, Coast to Coast (Flavours Cookbook) Solar Power: How to Save A LOT of Money the Easy Way (Solar Power, Save Money, Solar Energy, Solar, Sustainable Energy, Sustainable Homes, Sustainability) Concepts and Case Analysis in the Law of Contracts (Concepts and Insights) Chirelstein's Concepts and Case Analysis in the Law of Contracts, 7th (Concepts and Insights Series) Concepts and Case Analysis in the Law of Contracts, 6th (Concepts & Insights) Seismic Design and Assessment of Bridges: Inelastic Methods of Analysis and Case Studies: 21 (Geotechnical, Geological and Earthquake Engineering) Engineering for Sustainability: A Practical Guide for Sustainable Design Supply Chain Management and Advanced Planning: Concepts, Models, Software, and Case Studies (Springer Texts in Business and Economics) Daylighting Design in the Pacific Northwest (Sustainable Design Solutions from the Pacific Northwest) Integrated Pest Management: Concepts, Tactics, Strategies and Case Studies Essential Concepts of Electrophysiology through Case Studies: Intracardiac EGMS G.Dieter's Li.Schmidt's Engineering 4th (Fourth) edition(Engineering Design (Engineering Series) [Hardcover])(2008) The Turn of the Screw: A Case Study in Contemporary Criticism (Case Studies in Contemporary Criticism) Patent Case Management Judicial Guide 3rd edition (2016) Volume II: Trial Case Management, Design Patents, Plant Patents, ANDA/Biosimilars, Federal Claims, and Patent Primer (Volume 2)

[Dmca](#)