

WHOLE SYSTEM DESIGN

AN INTEGRATED APPROACH TO
SUSTAINABLE ENGINEERING

PETER STASINOPOULOS + MICHAEL H. SMITH
CARLSON + CHARLIE HARGROVES + CHERYL DRESHA

Whole System Design An Integrated Approach To Sustainable Engineering

**Cheryl Desha, Karlson 'Charlie'
Hargroves**



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Whole System Design Peter Stasinopoulos, Michael 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 *Whole System Design* Peter Stasinopoulos, 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 *Cents and Sustainability* Michael H. Smith, Karlson Hargroves, Cheryl Desha, 2010 *Cents and Sustainability* is a clear sighted response to the 1987 call by Dr Gro Brundtland in *Our Common Future* to achieve a new era of economic growth that is forceful and at the same time socially and environmentally sustainable The Brundtland Report argued that not only was it achievable but that it was an urgent imperative in order to achieve a transition to sustainable development while significantly

reducing poverty and driving clean and green investment With some still arguing for significantly slowing economic growth in order to reduce pressures on the environment this new book Cents and Sustainability shows that it is possible to reconcile the need for economic growth and environmental sustainability through a strategy to decouple economic growth from environmental pressures combined with a renewed commitment to achieve significant environmental restoration and poverty reduction Beginning with a brief overview of some of the most pressing environmental challenges of our time the book then explains decoupling theory overviews a number of factors that can undermine and even block efforts to decouple in both developed and developing countries and then discusses a number of key considerations to assist the development of national decoupling strategies The book then focuses on presenting evidence to support greater action not just on climate change but also on decoupling economic growth from the loss of biodiversity and the deterioration of natural systems freshwater extraction waste production and air pollution In the lead up to the 2012 United Nations Earth Summit and beyond Cents and Sustainability will be a crucial guide to inform and assist nations to develop strategies to significantly reduce environmental pressures strengthen their economy create jobs and reduce poverty I commend the team from The Natural Edge Project and their partners for undertaking to develop a response to Our Common Future to mark its 20th anniversary Dr Gro Brundtland Sequel to The Natural Advantage of Nations Published with The Natural Edge Project

Factor Five Ernst Ulrich von Weizsacker, Charlie Hargroves, Michael H. Smith, Cheryl Desha, Peter Stasinopoulos, 2009-12-01 When first published in 1997 Factor Four Doubling Wealth Halving Resource Use by renowned economic and engineering experts Ernst von Weizsacker Amory Lovins and L Hunter Lovins transformed how economists policy makers engineers entrepreneurs and business leaders thought about innovation and wealth creation Through examples from a wide range of industrial sectors the authors demonstrated how technical innovation could cut resource use in half while doubling wealth Now twelve years on with climate change at the top of the world agenda and the new economic giants of China and India needing ever more resources there is a unique historic opportunity to scale up resources productivity and radically transform the global economy And Factor Five is the book set to change all of this Picking up where Factor Four left off this new book examines the past 15 years of innovation in industry technical innovation and policy It shows how and where factor four gains have been made and how we can achieve greater factor five or 80% improvements in resource and energy productivity and how to roll them out on a global scale to retool our economic system massively boost wealth for billions of people around the world and help solve the climate change crises Spanning dozens of countries including China and India and examining innumerable cases of innovation in design technology and policy the authors leave no engineering and economic stone unturned in their quest for excellence The book tackles sustainable development and climate change by providing in depth Factor 5 resource productivity studies of the following sectors Buildings Industry Agriculture Food and Hospitality and Transportation In its systematic approach to demonstrating how Factor 5 can be achieved the book also provides an overview of energy water

nexus and energy materials nexus efficiency opportunities across these sectors Given that these sectors are responsible for virtually all energy usage and greenhouse gas emissions globally this book is designed to guide everyone from individual households businesses industry sector groups to national governments in their efforts to achieve the IPCC recommended target of 80 per cent reductions to greenhouse gas emissions It also looks at innovation in regulation to increase resource productivity pricing carbon trading eco taxation and permits and the role of international institutions and trade The authors also explain exciting new concepts such as bio mimicry and whole system design as hallmarks for a new generation of technologies The last part of the book explores transformative ideas such as a long term trajectory of gently rising energy and resource prices and new concepts of well being in a more equitable world Like its predecessor this book is simply the most important work on the future of innovation business economics and policy and is top drawer reading for leaders across all sectors including business and industry government engineering and design and teaching This book is full colour throughout Published with The Natural Edge Project

Sustainable Aviation Technology and Operations Roberto Sabatini, Alessandro Gardi, 2023-09-12 Sustainable Aviation Technology and Operations Comprehensively covers research and development initiatives to enhance the environmental sustainability of the aviation sector Sustainable Aviation Technology and Operations provides a comprehensive and timely outlook of recent research advances in aeronautics and air transport with emphasis on both long term sustainable development goals and current achievements This book discusses some of the most promising advances in aircraft technologies air traffic management and systems engineering methodologies for sustainable aviation The topics covered include propulsion aerodynamics avionics structures materials airspace management biofuels and sustainable lifecycle management The physical processes associated with various aircraft emissions including air pollutants noise and contrails are presented to support the development of computational models for aircraft design flight path optimization and environmental impact assessment Relevant advances in systems engineering and lifecycle management processes are also covered bridging some of the existing gaps between academic research and industry best practices A collection of research case studies complements the book highlighting opportunities for a timely uptake of the most promising technologies towards a more efficient and environmentally sustainable aviation future Key features Contains important research and industry relevant contributions from world class experts Addresses recent advances in aviation sustainability including multidisciplinary design approaches and multi objective operational optimisation methods Includes a number of research case studies addressing propulsion aerostructures alternative aviation fuels avionics air traffic management and sustainable lifecycle management solutions Sustainable Aviation Technology and Operations is an excellent book for aerospace engineers aviation scientists researchers and graduate students involved in the field *Civil and Environmental Engineering: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources, 2016-01-31 Civil and environmental engineers work together to develop build and maintain the man made and

natural environments that make up the infrastructures and ecosystems in which we live and thrive Civil and Environmental Engineering Concepts Methodologies Tools and Applications is a comprehensive multi volume publication showcasing the best research on topics pertaining to road design building maintenance and construction transportation earthquake engineering waste and pollution management and water resources management and engineering Through its broad and extensive coverage on a variety of crucial concepts in the field of civil engineering and its subfield of environmental engineering this multi volume work is an essential addition to the library collections of academic and government institutions and appropriately meets the research needs of engineers environmental specialists researchers and graduate level students

Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education

Lim, Hwee Ling, 2015-02-28 The latest research innovations and enhanced technologies have altered the discipline of materials science and engineering As a direct result of these developments new trends in Materials Science and Engineering MSE pedagogy have emerged that require attention The Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education brings together innovative and current advances in the curriculum design and course content of MSE education programs Focusing on the application of instructional strategies pedagogical frameworks and career preparation techniques this book is an essential reference source for academicians engineering practitioners researchers and industry professionals interested in emerging and future trends in MSE training and education

Higher Education and Sustainable Development Cheryl Desha, Karlson 'Charlie' Hargroves, 2013-10-08 Responding to the global and unprecedented challenge of capacity building for twenty first century life this book is a practical guide for tertiary education institutions to quickly and effectively renew the curriculum towards education for sustainable development The book begins by exploring why curriculum change has been so slow It then describes a model for rapid curriculum renewal highlighting the important roles of setting timeframes formal and informal leadership and key components and action strategies The second part of the book provides detailed coverage of six core elements that have been trialled and peer reviewed by institutions around the world raising awareness among staff and students mapping graduate attributes auditing the curriculum developing niche degrees flagship courses and fully integrated programs engaging and catalysing community and student markets integrating curriculum with green campus operations With input from more than seventy academics and grounded in engineering education experiences this book will provide academic staff with tools and insights to rapidly align program offerings with the needs of present and future generations of students

Teaching and Learning Strategies for Sustainable Development Enakshi Sengupta, Patrick Blessinger, Taisir Subhi Yamin, 2020-05-27 This timely book explores the sustainable development goals how well universities have been able to integrate them into their curriculum and how universities can institutionalize the goals and sustainable development into their strategic plans and institutional culture

Evaluation of Human Work John R. Wilson, Sarah Sharples, 2015-04-16 Written by experts with real world experience in

applying ergonomics methodology in a range of contexts Evaluation of Human Work Fourth Edition explores ergonomics and human factors from a doing it perspective More than a cookbook of ergonomics methods the book encourages students to think about which methods they should apply when and why

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