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Minnesota *Kenneth A. Kroos Christian M. Carrico Philipp Cimiano JoAnne Yates Giorgio Mantica*

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green building an engineering approach to sustainable construction fills a void in green building which has good textbook options for practitioners architects and sustainability experts but not an engineering focused textbook focused on green building this new text takes an engineering approach to evaluating green building techniques systems and materials the book examines the built environment from inside out looking at minimizing environmental impacts while also considering the economics and energy use and efficiency while not a test prep book it will provide the knowledge foundation that will help prepare the students to take the leadership in energy and environmental design accreditation exam as students are often unclear on the evolving employment prospects in this field particularly for the engineer the textbook also features six case studies showing different career pathways for engineers in this arena takes a quantitative and analytical engineering approach to evaluating green building techniques systems and materials includes dedicated engineering examples and end of chapter problems that help develop students problem solving and analytical skills combines conceptual and calculational aspects that link to both big picture issues e g how many hiroshima blasts per year is the radiative forcing equivalent to along with everyday considerations like climate change real life experiences how much do i have to insulate my chicken coop to keep them warm passively in the winter links textbook coverage to abet criteria for accreditation of engineering programs

this book constitutes the refereed proceedings of the 15th international conference on engineering icwe 2015 held in rotterdam the netherlands in june 2015 the 26 full research papers 11 short papers 7 industry papers 11 demonstrations 6 posters and 4 contributions to

the phd symposium presented were carefully reviewed and selected from 100 submissions moreover 2 tutorials are presented the papers focus on eight tracks namely application modeling and engineering mobile applications social applications semantic applications quality and accessibility aspects of applications applications composition and mashups user interfaces security and privacy in applications

the first global history of voluntary consensus standard setting finalist hagley prize in business history the hagley museum and library the business history conference private voluntary standards shape almost everything we use from screw threads to shipping containers to e readers they have been critical to every major change in the world economy for more than a century including the rise of global manufacturing and the ubiquity of the internet in engineering rules joanne yates and craig n murphy trace the standard setting system s evolution through time revealing a process with an astonishingly pervasive if rarely noticed impact on all of our lives this type of standard setting was established in the 1880s when engineers aimed to prove their status as professionals by creating useful standards that would be widely adopted by manufacturers while satisfying corporate customers yates and murphy explain how these engineers processes provided a timely way to set desirable standards that would have taken much longer to emerge from the market and that governments were rarely willing to set by the 1920s the standardizers began to think of themselves as critical to global prosperity and world peace after world war ii standardizers transcended cold war divisions to create standards that made the global economy possible finally yates and murphy reveal how since 1990 a new generation of standardizers has focused on supporting the internet and web while applying the same standard setting process to regulate the potential social and environmental harms of the increasingly global economy drawing on archival materials from three continents yates and murphy describe the positive ideals that sparked the standardization movement the ways its leaders tried to realize those ideals and the challenges the movement faces today engineering rules is a riveting global history of the people processes and organizations that created and maintain this nearly

invisible infrastructure of today's economy which is just as important as the state or the global market

this book collects contributions to the xxiii international conference nonlinear dynamics of electronic systems topics range from non linearity in electronic circuits to synchronisation effects in complex networks to biological systems neural dynamics and the complex organisation of the brain resting on a solid mathematical basis these investigations address highly interdisciplinary problems in physics engineering biology and biochemistry

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this work is the reminiscences and adventures of a mining engineer compiled from various letters and diaries throughout his career provides a very interesting and fascinating look into the life and times of mining and miners contains stories and experiences from all over the globe

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