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KEY=FAILURE - OCONNOR ELIANNA

Success Through Failure

The Paradox of Design

Princeton University Press Examines many of the failed designs and inventions that led to greater improvements siting as examples the 1940 collapse of the Tacoma Narrows Bridge and the space shuttle disasters.

To Engineer is Human

The Role of Failure in Successful Design

St. Martin's Press "Though ours is an age of high technology, the essence of what engineering is and what engineers do is not common knowledge. Even the most elementary of principles upon which great bridges, jumbo jets, or super computers are built are alien concepts to many. This is so in part because engineering as a human endeavor is not yet integrated into our culture and intellectual tradition. And while educators are currently wrestling with the problem of introducing technology into conventional academic curricula, thus better preparing today's students for life in a world increasingly technological, there is as yet no consensus as to how technological literacy can best be achieved. " I believe, and I argue in this essay, that the ideas of engineering are in fact in our bones and part of our human nature and experience. Furthermore, I believe that an understanding and an appreciation of engineers and engineering can be gotten without an engineering or technical education. Thus I hope that the technologically uninitiated will come to read what I have written as an introduction to technology. Indeed, this book is my answer to the questions 'What is engineering?' and 'What do engineers do?'" - Henry Petroski, To Engineer is Human

To Forgive Design

Understanding Failure

Harvard University Press Argues that failures in structural engineering are not necessarily due to the physical design of the structures, but instead a misunderstanding of how cultural and socioeconomic constraints would affect the structures.

Design Paradigms

Case Histories of Error and Judgment in Engineering

Cambridge University Press Case histories of engineering success and failure are presented to enrich understanding of the design process.

The Road Taken

The History and Future of America's Infrastructure

Bloomsbury Publishing USA A renowned historian and engineer explores the past, present, and future of America's crumbling infrastructure. Acclaimed engineer and historian Henry Petroski explores our core infrastructure from both historical and contemporary perspectives, explaining how essential their maintenance is to America's economic health. Petroski reveals the genesis of the many parts of America's highway system--our interstate numbering system, the centerline that divides roads, and such taken-for-granted objects as guardrails, stop signs, and traffic lights--all crucial to our national and local infrastructure. A compelling work of history, The Road Taken is also an urgent clarion call aimed at American citizens, politicians, and anyone with a vested interest in our economic well-being. Physical infrastructure in the United States is crumbling, and Petroski reveals the complex and challenging interplay between government and industry inherent in major infrastructure improvement. The road we take in the next decade toward rebuilding our aging infrastructure will in large part determine our future national prosperity.

Invention by Design

How Engineers Get from Thought to Thing

Harvard University Press Presents case studies of inventions by engineers, explaining how they resolve technical difficulties, and how they make their inventions socially acceptable and economically feasible

Small Things Considered

Why There Is No Perfect Design

Vintage Why has the durable paper shopping bag been largely replaced by its flimsy plastic counterpart? What circuitous chain of improvements led to such innovations as the automobile cup holder and the swiveling vegetable peeler? With the same relentless curiosity and lucid, witty prose he brought to his earlier books, Henry Petroski looks at some of our most familiar objects and reveals that they are, in fact, works in progress. For there can never be an end to the quest for the perfect design. To illustrate his thesis, Petroski tells the story of the paper drinking cup, which owes its popularity to the discovery that water glasses could carry germs. He pays tribute to the little plastic tripod that keeps pizza from sticking to the box and analyzes the numerical layouts of telephones and handheld calculators. Small Things Considered is Petroski at his most trenchant and provocative, casting his eye not only on everyday artifacts but on their users as well.

Pushing the Limits

New Adventures in Engineering

Vintage Here are two dozen tales in the grand adventure of engineering from the Henry Petroski, who has been called America's poet laureate of technology. Pushing the Limits celebrates some of the largest things we have created--bridges, dams, buildings--and provides a startling new vision of engineering's past, its present, and its future. Along the way it highlights our greatest successes, like London's Tower Bridge; our most ambitious projects, like China's Three Gorges Dam; our most embarrassing moments, like the wobbly Millennium Bridge in London; and our greatest failures, like the collapse of the twin towers on September 11. Throughout, Petroski provides fascinating and provocative insights into the world of technology with his trademark erudition and enthusiasm for the subject.

Success Through Failure

The Paradox of Design

Princeton University Press Contends that modeling engineering designs solely on past successes and ignoring past missteps is a path toward eventual failure.

The Evolution of Useful Things

How Everyday Artifacts-From Forks and Pins to Paper Clips and Zippers-Came to be as They are.

Vintage How did the table fork acquire a fourth tine? What advantage does the Phillips-head screw have over its single-grooved predecessor? Why does the paper clip look the way it does? What makes Scotch tape Scotch? In this delightful book Henry, Petroski takes a microscopic look at artifacts that most of us count on but rarely contemplate, including such icons of the everyday as pins, Post-its, and fast-food "clamshell" containers. At the same time, he offers a convincing new theory of technological innovation as a response to the perceived failures of existing products—suggesting that irritation, and not necessity, is the mother of invention.

Design Paradigms

Case Histories of Error and Judgment in Engineering

Cambridge University Press From classical temples to twentieth century towers, engineers have learned more about design from failure than from success. The concept of error, according to the author of Design Paradigms, is central to the design process. As a way of explaining the enduring aspects of engineering design, Henry Petroski relates stories of some of the greatest engineering successes and failures of all time. These case studies, drawn from a wide range of times and places, from Ancient Greece and Rome to modern America, serve as paradigms of error and judgment in engineering design. By showing how errors were introduced in the design process and how they might be avoided, the book suggests how better quality and reliability might be achieved in designed

devices, structures, and systems of all kinds. Clearly written, with striking illustrations, the book will appeal to engineering students, practicing engineers, historians of science and technology, and all those interested in learning about the process of design.

Remaking the World

Adventures in Engineering

Knopf Exploring the role of engineers in transforming and shaping the modern world, the author elucidates the principles of engineering as he looks at such achievements as the English Channel tunnel, the Panama Canal, and the Hoover Dam

The House with Sixteen Handmade Doors: A Tale of Architectural Choice and Craftsmanship

W. W. Norton & Company A Duke University professor describes his quest to determine who built his 60-year-old house and how they did it, examining the details in the panels, walls and doors to paint a picture of the home's origins and evolution. 15,000 first printing.

NASA 50th Anniversary Proceedings: NASA's First 50 Years: Historical Perspectives

NASA's First 50 Years, Historical Perspectives

U. S. National Aeronautics & Space Administration On 29 July 1958, President Dwight D. Eisenhower signed the National Aeronautics and Space Act, creating the National Aeronautics and Space Administration (NASA), which became operational on 1 October of that year. Over the next 50 years, NASA achieved a set of spectacular feats, ranging from advancing the well-established

field of aeronautics to pioneering the new fields of Earth and space science and human spaceflight. In the midst of the geopolitical context of the Cold War, 12 Americans walked on the Moon, arriving in peace “for all mankind.” Humans saw their home planet from a new perspective, with unforgettable Apollo images of Earthrise and the “Blue Marble,” as well as the “pale blue dot” from the edge of the solar system. A flotilla of spacecraft has studied Earth, while other spacecraft have probed the depths of the solar system and the universe beyond. In the 1980s, the evolution of aeronautics gave us the first winged human spacecraft, the Space Shuttle, and the International Space Station stands as a symbol of human cooperation in space as well as a possible way station to the stars. With the Apollo fire and two Space Shuttle accidents, NASA has also seen the depths of tragedy. In this volume, a wide array of scholars turn a critical eye toward NASA’s first 50 years, probing an institution widely seen as the premier agency for exploration in the world, carrying on a long tradition of exploration by the United States and the human species in general. Fifty years after its founding, NASA finds itself at a crossroads that historical perspectives can only help to illuminate.

The Essential Engineer

Vintage From the acclaimed author of *The Pencil and To Engineer Is Human*, *The Essential Engineer* is an eye-opening exploration of the ways in which science and engineering must work together to address our world’s most pressing issues, from dealing with climate change and the prevention of natural disasters to the development of efficient automobiles and the search for renewable energy sources. While the scientist may identify problems, it falls to the engineer to solve them. It is the inherent practicality of engineering, which takes into account structural, economic, environmental, and other factors that science often does not consider, that makes engineering vital to answering our most urgent concerns. Henry Petroski takes us inside the research, development, and debates surrounding the most critical challenges of our time, exploring the feasibility of biofuels, the progress of battery-operated cars, and the question of nuclear power. He gives us an in-depth investigation of the various options for renewable energy—among them solar, wind, tidal, and ethanol—explaining the benefits and risks of each. Will windmills soon populate our landscape the way they did in previous centuries? Will synthetic trees, said to be more efficient at absorbing harmful carbon dioxide than real trees, soon dot our prairies? Will we construct a “sunshade” in outer space to protect ourselves from dangerous rays? In many cases, the technology already exists. What’s needed is not so much invention as engineering. Just as the great achievements of centuries past—the steamship, the airplane, the moon landing—once seemed beyond reach, the solutions to the twenty-first century’s problems await only a similar coordination of science and engineering. Eloquently reasoned and written, *The Essential Engineer* identifies and illuminates these problems—and, above all, sets out a course for putting ideas into action.

The Pencil

A History of Design and Circumstance

Knopf Henry Petroski traces the origins of the pencil back to ancient Greece and Rome, writes factually and charmingly about its development over the centuries and around the world, and shows what the pencil can teach us about engineering and technology today.

Paperboy

Confessions of a Future Engineer

Vintage Anyone wondering what sort of experience prepares one for a future as an engineer may be surprised to learn that it includes delivering newspapers. But as Henry Petroski recounts his youth in 1950s Queens, New York—a borough of handball games and inexplicably numbered streets—he winningly shows how his after-school job amounted to a prep course in practical engineering. Petroski's paper was The Long Island Press, whose headlines ran to COP SAVES OLD WOMAN FROM THUG and DiMAG SAYS BUMS CAN'T WIN SERIES. Folding it into a tube suitable for throwing was an exercise in post-Euclidean geometry. Maintaining a Schwinn revealed volumes about mechanics. Reading Paperboy, we also learn about the hazing rituals of its namesakes, the aesthetics of kitchen appliances, and the delicate art of penny-pitching. With gratifying reflections on these and other lessons of a bygone era—lessons about diligence, labor, and community-mindedness—Paperboy is a piece of Americana to cherish and reread.

Design Paradigms

A Sourcebook for Creative Visualization

John Wiley & Sons A versatile toolbox of ideas for creative design solutions. How do things bend? How are things joined? How do things get larger or smaller? When you work creatively in design or architecture, these are the sort of questions that come up again and again-and how you choose to answer them can play a pivotal role in determining the final form of a design project. This book offers a powerful new approach to design and creative visualization, helping you address these key design questions with flexibility and imagination by equipping you with a vital repertoire of design paradigms: basic conceptual and visual ideas that can be applied to all types of design problems. Beginning with fundamental design paradigm concepts, Design Paradigms: * Introduces simple shapes and then explores how more complex forms can accommodate enclosure, attachment, and other common functions * Examines how multiple objects relate to each other and how they can be linked or connected * Looks at multiple functions of a single object, using models that range from a claw hammer to a convertible sofa Bridging the gap between theory and practice, the book discusses how design paradigms can work as conceptual blockbusters in solving design problems. Complete with over 300 illustrations, examples from both natural and man-made environments, and much more, Design Paradigms is a powerful springboard for design exploration-a must-own sourcebook of inspiration for students and professionals in all areas of design, product development, and architecture.

Engineers of Dreams

Great Bridge Builders and the Spanning of America

Vintage Petroski reveals the science and engineering--not to mention the politics, egotism, and sheer magic--behind America's great bridges, particularly those constructed during the great bridge-building era starting in the 1870s and continuing through the 1930s. It is the story of the men and women who built the St. Louis, the George Washington, and the Golden Gate bridges, drawing not only on their mastery of numbers but on their gifts for persuasion and self-promotion. It is an account of triumphs and ignominious disasters (including the Tacoma Narrows Bridge, which literally twisted itself apart in a high wind). And throughout this grandly engaging book, Petroski lets us see how bridges became the "symbols and souls" of our civilization, as well as testaments to their builders' vision, ingenuity, and perseverance. "Seamlessly linked...With astonishing scope and generosity of view, Mr. Petroski places the tradition of American bridge-building in perspective."--New York Times Book Review

Failure

Why Science is So Successful

Oxford University Press, USA Failure is a book that seeks to make science more appealing by exposing its faults. In this sequel to Ignorance, Stuart Firestein shows us that scientific enterprise is riddled with failures, and that this is not only necessary but good.

The Pencil

A History of Design and Circumstance

Alfred a Knopf Incorporated Analyzes the common pencil, citing it as an example of engineering excellence, looks at its origins and the history of its production, and provides reasons for its survival into the computer age

We Are Not Users

Dialogues, Diversity, and Design

MIT Press A call to reclaim and rethink the field of designing as a liberal art where diverse voices come together to shape the material world. We live in a material world of designed artifacts, both digital and analog. We think of ourselves as users; the platforms, devices, or objects provide a service that we can use. But is this really the case? We Are Not Users argues that people cannot be reduced to the entity called “user”; we are not homogenous but diverse. That buzz of dissonance that we hear reflects the difficulty of condensing our diversity into “one size fits all.” This book proposes that a new understanding of design could resolve that dissonance, and issues a call to reclaim and rethink the field of designing as a liberal art where diverse voices come together to shape the material world. The authors envision designing as a dialogue, simultaneously about the individual and the social—an act enriched by diversity of both disciplines and perspectives. The book presents the building blocks of a language that can conceive designing in all its

richness, with relevance for both theory and practice. It introduces a theoretical model, terminology, examples, and a framework for bringing together the social, cultural, and political aspects of designing. It will be essential reading for design theorists and for designers in areas ranging from architecture to software design and policymaking.

An Engineer's Alphabet

Gleanings from the Softer Side of a Profession

Cambridge University Press Written by America's most famous engineering storyteller and educator, this abecedarium is one engineer's selection of thoughts, quotations, anecdotes, facts, trivia and arcana relating to the practice, history, culture and traditions of his profession. The entries reflect decades of reading, writing, talking and thinking about engineers and engineering, and range from brief essays to lists of great engineering achievements. This work is organized alphabetically and more like a dictionary than an encyclopedia. It is not intended to be read from first page to last, but rather to be dipped into, here and there, as the mood strikes the reader. In time, it is hoped, this book should become the source to which readers go first when they encounter a vague or obscure reference to the softer side of engineering.

Secure Programming with Static Analysis

Pearson Education The First Expert Guide to Static Analysis for Software Security! Creating secure code requires more than just good intentions. Programmers need to know that their code will be safe in an almost infinite number of scenarios and configurations. Static source code analysis gives users the ability to review their work with a fine-toothed comb and uncover the kinds of errors that lead directly to security vulnerabilities. Now, there's a complete guide to static analysis: how it works, how to integrate it into the software development processes, and how to make the most of it during security code review. Static analysis experts Brian Chess and Jacob West look at the most common types of security defects that occur today. They illustrate main points using Java and C code examples taken from real-world security incidents, showing how coding errors are exploited, how they could have been prevented, and how static analysis can rapidly uncover similar mistakes. This book is for everyone concerned with building more secure software: developers, security engineers, analysts, and testers.

King of Poisons

A History of Arsenic

Potomac Books, Inc. For centuries, arsenic's image as a poison has been inextricably tied to images of foul play. In King of Poisons, John Parascandola examines the surprising history of this deadly element. From Gustave Flaubert to Dorothy Sayers, arsenic has long held a place in the literary realm as an instrument of murder and suicide. It was delightfully used as a source of comedy in the famous play Arsenic and Old Lace. But as Parascandola shows, arsenic has had a number of surprising real-world applications. It was frequently found in such common items as wallpaper, paint, cosmetics, and even candy, and its use in medical treatments was widespread. American ambassador Clare Boothe Luce suffered from exposure to arsenical paint in her study, and Napoleon's death has long been speculated to be the result of accidental or intentional poisoning. But arsenic poisoning is still a public menace. In the neighborhood surrounding American University in Washington, D.C., the army has undertaken a massive cleanup of artillery shells and bottles containing chemical warfare agents such as arsenical lewisite after a number of workmen and residents became ill. Arsenic contamination of the water supply in Bangladesh and in West Bengal, India, is a major public health problem today as well. From murder to crime fiction, from industrial toxin to chemical warfare, arsenic remains a powerful force in modern life.

Engineering and the Mind's Eye

MIT Press In this insightful and incisive essay, Eugene Ferguson demonstrates that good engineering is as much a matter of intuition and nonverbal thinking as of equations and computation. He argues that a system of engineering education that ignores nonverbal thinking will produce engineers who are dangerously ignorant of the many ways in which the real world differs from the mathematical models constructed in academic minds.

Steps toward a Philosophy of Engineering

Historico-Philosophical and Critical Essays

Rowman & Littlefield Publishers The rise of classic Euro-American philosophy of technology in the 1950s originally emphasized the importance of technologies as material entities and their mediating influence within human experience. Recent decades, however, have witnessed a subtle shift toward reflection on the activity from which these distinctly modern artifacts emerge and through which they are engaged and managed, that is, on engineering. What is engineering? What is the meaning of engineering? How is engineering related to other aspects of human existence? Such basic questions readily engage all major branches of philosophy --- ontology, epistemology, ethics, political philosophy, and aesthetics --- although not always to the same degree. The historico-philosophical and critical reflections collected here record a series of halting steps to think through engineering and the engineered way of life that we all increasingly live in what has been called the Anthropocene. The aim is not to promote an ideology for engineering but to stimulate deeper reflection among engineers and non-engineers alike about some basic challenges of our engineered and engineering lifeworld.

The Toothpick

Technology and Culture

Vintage A celebration culture and technology, as seen through the history of the humble yet ubiquitous toothpick, from the best-selling author of *The Pencil*. From ancient Rome, where emperor Nero made his entrance into a banquet hall with a silver toothpick in his mouth, to nineteenth-century Boston, where Charles Forster, the father of the American wooden toothpick industry, ensured toothpicks appeared in every restaurant, the toothpick has been an omnipresent, yet often overlooked part of our daily lives. Here, with an engineer's eye for detail and a poet's flair for language, Henry Petroski takes us on an incredible tour of this most interesting invention. Along the way, he peers inside today's surprisingly secretive toothpick-manufacturing industry, and explores a treasure trove of the toothpick's unintended uses and perils, from sandwiches to martinis and beyond.

Flying Buttresses, Entropy, and O-rings

The World of an Engineer

Harvard University Press From Teflon to Velcro, from bandwidths to base pairs, the artifacts of engineering and technology reflect the broad scope--and frustrating limitations--of our imagination. Best-selling author James Adams takes readers on an enlightening tour of this exciting world, demystifying such endeavors as design, research, and manufacturing.

Managing to Learn

Using the A3 Management Process to Solve Problems, Gain Agreement, Mentor and Lead

Lean Enterprise Institute Senior experts within the Toyota Production System often draw simple maps when on the shop floor. These maps show the current physical flow of a product family and the information flow for that product family as the wind through a complex facility making many products. Much more important, these simple maps - often drawn on scrap paper - show where steps can be eliminated, flows smoothed, and pull systems introduced in order to create a truly lean value stream for each product family. In 1998 John Shook and Mike Rother of the University of Michigan wrote down Toyota's mapping methodology for the first time in Learning to See. This simple tool makes it possible for you to see through the clutter of a complex plant. You'll soon be able to identify all of the processing steps along the path from raw materials to finished goods for each product and all of the information flows going back from the customer through the plant and upstream to suppliers. In plain language and with detailed drawings, this workbook explains everything you will need to create accurate current state and future state maps for each of your product families and then to turn the current state into the future state rapidly and sustainably.

Reference Manual on Scientific Evidence When Technology Fails

Significant Technological Disasters, Accidents, and Failures of the Twentieth Century

Gale Group Discusses aircraft, airships, automobiles, bridges, buildings and other structures, chemical and environmental disasters, dams, medical disasters, nuclear plants, ships, spacecraft, and submarine disasters.

History of Technology 2005

A&C Black The technical problems confronting different societies and periods and the measures taken to solve them form the concern of this annual collection of essays. It deals with the history of technical discovery and change and explores the relationship of technology to other aspects of life - social, cultural and economic - and shows how technological development has shaped, and been shaped by, the society in which it occurred. >

Buckling of Bars, Plates, and Shells

Bull Ridge Corporation

The Evolution of Useful Things

Vintage A look at the origin of everyday household items examines the Phillips-head screwdriver, paper clips, Post-its, fast-food "clamshell" containers, and other items. Reprint. 30,000 first printing.

Minding the Machines

Preventing Technological Disasters

Prentice Hall Professional A provocative and authoritative guide to understanding the questions surrounding technology disasters that occur, with a blueprint for the prevention of future disasters, this book looks at over three dozen case studies and the lessons learned from them.

Authentic Problem Solving and Learning in the 21st Century

Perspectives from Singapore and Beyond

Springer With the rapid changes in the social, political, economic and technological landscape around the world, today's learners face a more globally competitive job market after leaving school. The 21st century, which is characterized by the emergence of knowledge-based societies, expects learners to be comfortable in dealing with ambiguities and complexities in the real world and to be able to use knowledge as a tool at their workplace. This book will help readers develop an in-depth understanding of authentic problem solving and learning, and how it can be used to make a difference in their school or learning communities for the development of 21st century competencies. Comprising 20 chapters written by Singapore-based and international authors, the book is organized into three themes: authentic problems, authentic practices, and authentic participation. It details innovative school practices (e.g. productive failure) concerning the design of problems, learning activities, learning environments, and ICT tools for authentic problem solving and learning. Along with theoretical explanations of authentic learning processes and outcomes, the book also elucidates how students learn by generating and exploring solutions to complex problems and which cognitive functions are needed at different stages of problem-based learning. Presenting coherent descriptions of instructional design principles, successful cases and challenges encountered in K-12 schools and learning communities, the book provides useful information, new insights, and

practical guidance for school directors, parents, teachers and researchers seeking to develop authentic learning environments for 21st century learners.

The Designful Company

How to build a culture of nonstop innovation

Peachpit Press Part manifesto, part handbook, THE DESIGNFUL COMPANY provides a lively overview of a growing trend in management-design thinking as a business competence. According to the author, traditional managers have relied on a two-step process to make decisions, which he calls “knowing” and “doing.” Yet in today’s innovation-driven marketplace, managers need to insert a middle step, called “making.” Making is a phase in which assumptions are questioned, futures are imagined, and prototypes are tested, producing a wide range of options that didn’t exist before. The reader is challenged to consider the author’s bold assertion: There can be no real innovation without design. Those who are new to Marty Neumeier’s “whiteboard” series may want to ramp up with the first two books, THE BRAND GAP and ZAG. Both are easy reads. Covered in THE DESIGNFUL COMPANY: - the top 10 “wicked problems” that only design can solve - a new, broader definition of design - why designing trumps deciding in an era of change - how to harness the “organic drivetrain” of value creation - how aesthetics add nuance to managing - 16 levers to transform your company - why you should bring design management inside - how to assemble an innovation metateam - how to recognize and reward talent From the back cover: The complex business problems we face today can’t be solved with the same thinking that created them. Instead, we need to start from a place outside traditional management. Forget total quality. Forget top-down strategy. In an era of fast-moving markets and leap-frogging innovations, we can no longer “decide” the way forward. Today we have to “design” the way forward-or risk ending up in the fossil layers of history. Marty Neumeier, author of THE BRAND GAP and ZAG, presents the new management engine that can transform your company into a powerhouse of nonstop innovation.

Engineering and Philosophy

Reimagining Technology and Social Progress

Springer Nature Engineers love to build “things” and have an innate sense of wanting to help society. However, these desires are often not connected or developed through reflections on the complexities of philosophy, biology, economics, politics, environment, and culture. To guide future efforts and to best bring about human flourishing and a just world, Engineering and Philosophy: Reimagining Technology and Progress brings together practitioners and scholars to inspire deeper conversations on the nature and varieties of engineering. The perspectives in this book are an act of reimagination: how does engineering serve society, and in a vital sense, how should it.

Understandable Statistics

Cengage Learning UNDERSTANDABLE STATISTICS: CONCEPTS AND METHODS, Eleventh Edition, is a thorough yet accessible program designed to help readers overcome their apprehensions about statistics. The authors provide clear guidance and informal advice while showing the links between statistics and the world. To reinforce this approach--and make the material interesting as well as easier to understand--the book integrates real-life data from a variety of sources, including journals, periodicals, newspapers, and the Internet. Readers also have opportunities to develop their critical-thinking and statistical literacy skills through special features and exercises throughout the text. The use of graphing calculators, Excel, MINITAB, and SPSS is covered for those who wish to learn about these helpful tools. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.