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Power, Speed, and Form

Engineers and the Making of the Twentieth Century

Princeton University Press **Power, Speed, and Form** is the first accessible account of the engineering behind eight breakthrough innovations that transformed American life from 1876 to 1939—the telephone, electric power, oil refining, the automobile, the airplane, radio, the long-span steel bridge, and building with reinforced concrete. Beginning with Thomas Edison's system to generate and distribute electric power, the authors explain the Bell telephone, the oil refining processes of William Burton and Eugene Houdry, Henry Ford's Model T car and the response by General Motors, the Wright brothers' airplane, radio innovations from Marconi to Armstrong, Othmar Ammann's George Washington Bridge, the reinforced concrete structures of John Eastwood and Anton Tedesko, and in the 1930s, the Chrysler Airflow car and the Douglas DC-3 airplane. These innovations used simple numerical ideas, which the Billingtons integrate with short narrative accounts of each breakthrough—a unique and effective way to introduce engineering and how engineers think. The book shows how the best engineering exemplifies efficiency, economy and, where possible, elegance. With **Power, Speed, and Form**, educators, first-year engineering students, liberal arts students, and general readers now have, for the first time in one volume, an accessible and readable history of engineering achievements that were vital to America's development and that are still the foundations of modern life.

From Insight to Innovation

Engineering Ideas That Transformed America in the Twentieth Century

MIT Press The engineering ideas behind key twentieth-century technical innovations, from great dams and highways to the jet engine, the transistor, the microchip, and the computer. Technology is essential to modern life, yet few of us are technology-literate enough to know much about the engineering that underpins it. In this book, David P. Billington, Jr., offers accessible accounts of the key twentieth-century engineering innovations that brought us into the twenty-first century. Billington examines a series of engineering advances—from Hoover Dam and jet engines to the transistor, the microchip, the computer, and the internet—and explains how they came about and how they work. Each of these innovations tells a unique story. The great dams of the New Deal brought huge rivers under control, and a national highway system interconnected the nation, as did jet air travel. The transistor and the microchip originated in the private sector and found a mass market after early government support. The computer and the internet began as government projects and found a mass market later in the private sector. Billington finds that engineers with unconventional insights could succeed in a bureaucratic age; what mattered were independent vision and a society that welcomed innovation. This book completes the story of American engineering begun with the earlier volumes *The Innovators* (by the author's father) and *Power, Speed, and Form* (by the author and his father).

Engineers

A History of Engineering and Structural Design

Routledge This innovative new book presents the vast historical sweep of engineering innovation and technological change to describe and illustrate engineering design and what conditions, events, cultural climates and personalities have brought it to its present state. Matthew Wells covers topics based on an examination of paradigm shifts, the contribution of individuals, important structures and influential disasters to show approaches to the modern concept of structure. By demonstrating the historical context of engineering, Wells has created a guide to design like no other, inspirational for both students and practitioners working in the fields of architecture and engineering.

Historical Dictionary of the Petroleum Industry

Scarecrow Press The *Historical Dictionary of the Petroleum Industry* presents a concise but complete one-volume reference on the history of the petroleum industry from pre-modern times to the present day. This is done through a chronology, an introductory essay, and over 400 cross-referenced dictionary entries on companies, people, events, technologies, phenomena, countries, provinces, cities, and regions related to the history of the world's petroleum industry. Anyone interested in the history, status, and outlook for the petroleum industry will find this book a uniquely valuable source.

The Automobile and American Life, 2d ed.

McFarland Reviews of the first edition: "The prose is almost flawless, and the writing never feels beleaguered...it is almost like the author enjoyed every topic and every page. Highly recommended. All collections"—Choice "A great starting point for any student of American automotive history and a worthwhile addition to a collector's bookshelf"—Autoweek "Fun, informative, and close to a prewar bull's eye!"—Prewar Auto Notes "Very worthwhile reading"—Hemmings Classic Car "This is an immensely useful work, especially for those of us who want an entertaining and provocative text for our courses...provide teachers with a great opportunity to expand on the text in class...a valuable asset to any teacher who hopes to bring the automobile and automobility into the classroom"—Technology and Culture "Highly recommended"—Enterprise & Society "A deeply thought provoking study"—www.route66infocenter.com. Now revised and updated, this book tells the story of how the automobile transformed American life and how automotive design and technology have changed over time. It details cars' inception as a mechanical curiosity and later a plaything for the wealthy; racing and the promotion of the industry; Henry Ford and the advent of mass production; market competition during the 1920s; the development of roads and accompanying highway culture; the effects of the Great Depression and World War II; the automotive Golden Age of the 1950s; oil crises and the turbulent 1970s; the decline and then resurgence of the Big Three; and how American car culture has been represented in film, music and literature. Updated notes and a select bibliography serve as valuable resources to those interested in automotive history.

How Britain Shaped the Manufacturing World

1851 - 1951

Pen and Sword History The peoples of the British Isles gave to the world the foundations on which modern manufacturing economies are built. This is quite an assertion, but history shows that, in the late eighteenth century, a remarkable combination of factors and circumstances combined to give birth to Britain as the first manufacturing nation. Further factors allowed it to remain top manufacturing dog well into the twentieth century while other countries were busy playing catch up. Through two world wars and the surrounding years, British manufacturing remained strong, albeit while ceding the lead to the United States. This book seeks to tell the remarkable story of British manufacturing, using the Great Exhibition of 1851 as a prism. Prince Albert and Sir Henry Cole had conceived an idea of bringing together exhibits from manufacturers across the world to show to its many millions of visitors the pre-eminence of the British. 1851 was not the start, but rather a pause for a bask in glory. This book traces back from the exhibits in Hyde Park's Crystal Palace to identify the factors that gave rise to this pre-eminence, then follows developments up until the Festival of Britain exactly one century later. Steam power and communication by electric telegraph, both British inventions, predated the Exhibition. After it came the sewing machine and bicycle, motor car and aeroplane, but also electrical power, radio and the chemical and pharmaceutical industries where Britain played a leading part.

Fixing Higher Education

A Business Manager's Take on How to Boost Productivity in Higher Education

Springer Science & Business Media Christian Schierenbeck makes a provocative case that higher education across the globe suffers from a profound productivity crisis which prevents broad access to affordable and high-quality educational services. He shows how the vast productivity gap in higher education could be closed if academic managers borrowed some of the managerial practices applied by the world's leading business enterprises. In order for this to happen in practice, the author argues for radical changes in the policy framework for higher education.

Contemporary Authors New Revision Series

Gale / Cengage Learning In response to the escalating need for up-to-date information on writers, Contemporary Authors® New Revision Series brings researchers the most recent data on the world's most-popular authors. These exciting and unique author profiles are essential to your holdings because sketches are entirely revised and up-to-date, and completely replace the original Contemporary Authors® entries. For your convenience, a soft-cover cumulative index is sent biannually.

The Tower and the Bridge

The New Art of Structural Engineering

Princeton University Press An essential exploration of the engineering aesthetics of celebrated structures from long-span bridges to high-rise buildings What do structures such as the Eiffel Tower, the Brooklyn Bridge, and the concrete roofs of Pier Luigi Nervi have in common? According to *The Tower and the Bridge*, all are striking examples of structural art, an exciting area distinct from either architecture or machine design. Aided by stunning photographs, David Billington discusses the technical concerns and artistic principles underpinning the well-known projects of leading structural engineer-artists, including Othmar Ammann, Félix Candela, Gustave Eiffel, Fazlur Khan, Robert Maillart, John Roebling, and many others. A classic work, *The Tower and the Bridge* introduces readers to the fundamental aesthetics of engineering.

Exceptional Creativity in Science and Technology

Individuals, Institutions, and Innovations

Templeton Foundation Press In the evolution of science and technology, laws governing exceptional creativity and innovation have yet to be discovered. The historian Thomas Kuhn, in his influential study *The Structure of Scientific Revolutions*, noted that the final stage in a scientific breakthrough such as Albert Einstein's theory of relativity—that is, the most crucial stage—was “inscrutable.” The same is still true half a century later. Yet, there has been considerable progress in understanding many of the stages and facets of exceptional creativity and innovation. In *Exceptional Creativity in Science and Technology* editor Andrew Robinson gathers together a diverse group of contributors to explore this progress. This new collection arises from a symposium with the same title held at the Institute for Advanced Study (IAS), in Princeton. Organized by the John Templeton Foundation, the symposium had as its chair the late distinguished doctor and geneticist Baruch S. Blumberg, while its IAS host was the well-known physicist Freeman J. Dyson—both of whom have contributed chapters to the book. In addition to scientists, engineers, and an inventor, the book's fifteen contributors include an economist, entrepreneurs, historians, and sociologists, all working at leading institutions, including Bell Laboratories, Microsoft Research, Oxford University, Princeton University, and Stanford University. Each contributor brings a unique perspective to the relationships between exceptional scientific creativity and innovation by individuals and institutions. The diverse list of disciplines covered, the high-profile contributors (including two Nobel laureates), and their fascinating insights into this overarching question—how exactly do we make breakthroughs?—will make this collection of interest to anyone involved with the creative process in any context, but it will be especially appealing to readers in scientific and technological fields.

The Civil War Era and Reconstruction

An Encyclopedia of Social, Political, Cultural and Economic History

Routledge The encyclopedia takes a broad, multidisciplinary approach to the history of the period. It includes general and specific entries on politics and business, labor, industry, agriculture, education and youth, law and legislative affairs, literature, music, the performing and visual arts, health and medicine, science and technology, exploration, life on the Western frontier, family life, slave life, Native American life, women, and more than a hundred influential individuals.

Proceedings - Institution of Mechanical Engineers

Engineering

The Railway and Engineering Review

The American Marine Engineer

The Civil engineer & [and] architect's journal

The Mechanics' Magazine and Journal of Engineering, Agricultural Machinery, Manufactures and Shipbuilding

Brotherhood of Locomotive Engineer's Monthly Journal

Report of a Board of United States Naval Engineers

On the Herreshoff System of Motive Machinery as Applied to the Steam-yacht Leila, and on the Performance of that Vessel

Marine Engineer and Naval Architect

Electrical Engineer's Reference Book

Elsevier *Electrical Engineer's Reference Book, Fourteenth Edition* focuses on electrical engineering. The book first discusses units, mathematics, and physical quantities, including the international unit system, physical properties, and electricity. The text also looks at network and control systems analysis. The book examines materials used in electrical engineering. Topics include conducting materials, superconductors, silicon, insulating materials, electrical steels, and soft irons and relay steels. The text underscores electrical metrology and instrumentation, steam-generating plants, turbines and diesel plants, and nuclear reactor plants. The book also discusses alternative energy sources. Concerns include wind, geothermal, wave, ocean thermal, solar, and tidal energy. The text then looks at alternating-current generators. Stator windings, insulation, output equation, armature reaction, and reactants and time-constraints are described. The book also examines overhead lines, cables, power transformers, switchgears and protection, supply and control of reactive power, and power systems operation and control. The text is a vital source of reference for readers interested in electrical engineering.

The Engineer

Modern Physics for Scientists and Engineers

Jones & Bartlett Learning Physics / Quantum Physics

The Modern Practice of American Machinists & Engineers

Including the Construction, Application, and Use of Drills, Lathe Tools, Cutters for Boring Cylinders and Hollow Work Generally ... Together with Workshop Management, Economy of Manufacture, the Steam Engine ... Etc., Etc

Engineering Facts and Figures for ...

An Annual Register of Progress in Mechanical Engineering and Construction. 1863

The Modern Practice of American Machinist & Engineers

BoD - Books on Demand Reprint of the original, first published in 1869.

Energy Research Abstracts

The Electrical Engineer

Rules of Thumb for Mechanical Engineers

Gulf Professional Publishing Fluids -- Heat transfer -- Thermodynamics -- Mechanical seals -- Pumps and compressors -- Drivers -- Gears -- Bearings -- Piping and pressure vessels -- Tribology -- Vibration -- Materials -- Stress and strain -- Fatigue -- Instrumentation -- Engineering economics.

SSC Junior Engineers Civil Engineering Paper 1

Arihant Publications India limited Staff Selection Commission (SSC) is one of the prestigious organisations of Government of India known widely for recruiting potential candidates for various posts at various subordinate offices. "SSC Junior Engineer CPWD/MES Civil Engineering" for Paper I Computer-based test (CBT) 2019 is a revised edition to provide students an updated version of study material following the latest examination pattern for this examination. It is divided into three parts covering General Intelligence and Reasoning, General Awareness, and Civil along with their chapters equipped with complete theories. Each chapter consists of sufficient number of MCQs for harnessing the conceptual clarity. It has 3 solved papers of 2015, 2017 and 2018 with detailed solutions. It also provides mock test for self-practice. Enclosed with such effective set of study material, it is hoped that it will ensure success in this upcoming examination. TOC Solved Paper 2018, Solved Paper 2017, Solved Paper 2015, PART A - General Intelligence & Reasoning, PART B - General Awareness, PART C - Civil, Mock Test

SSC Junior Engineers Mechanical Engineering Paper 1 2019

Arihant Publications India limited Staff Selection Commission (SSC) is one of the prestigious organisations of Government of India known widely for recruiting potential candidates for various posts at various subordinate offices. "SSC Junior Engineer CPWD/MES Mechanical Engineering" for Paper I Computer-based test (CBT) 2019 is a revised edition to provide students an updated version of study material following the latest examination pattern for this examination. It is divided into three parts covering General Intelligence and Reasoning, General Awareness, and Mechanical along with their chapters equipped with complete theories. Each chapter consists of sufficient number of MCQs for harnessing the conceptual clarity. It has 3 solved papers of 2015, 2017 and 2018 with detailed solutions. It also provides 3 mock tests for self-practice. Enclosed with such effective set of study material, it is hoped that it will ensure success in this upcoming examination. TOC Solved Paper 2018, Solved Paper 2017, Solved Paper 2015, PART A - General Intelligence & Reasoning, PART B - General Awareness, PART C -Mechanical, 3 Mock Test

The American Engineer

Energy

A Continuing Bibliography with Indexes

Exploring Engineering

An Introduction to Engineering and Design

Academic Press Winner in its first edition of the Best New Undergraduate Textbook by the Professional and Scholarly Publishing Division of the American Association of Publishers (AAP), Kosky, et al is the first text offering an introduction to the major engineering fields, and the engineering design process, with an interdisciplinary case study approach. It introduces the fundamental physical, chemical and material bases for all engineering work and presents the engineering design process using examples and hands-on projects. Organized in two parts to cover both the concepts and practice of engineering: Part I, Minds On, introduces the fundamental physical, chemical and material bases for all engineering work while Part II, Hands On, provides opportunity to do design projects An Engineering Ethics Decision Matrix is introduced in Chapter 1 and used throughout the book to pose ethical challenges and explore ethical decision-making in an engineering context Lists of "Top Engineering Achievements" and "Top Engineering Challenges" help put the material in context and show engineering as a vibrant discipline involved in solving societal problems New to this edition: Additional discussions on what engineers do, and the distinctions between engineers, technicians, and managers (Chapter 1) New coverage of Renewable Energy and Environmental Engineering helps emphasize the emerging interest in Sustainable Engineering New discussions of Six Sigma in the Design section, and expanded material on writing technical reports Re-organized and updated chapters in Part I to more closely align with specific engineering disciplines new end of chapter exercises throughout the book

Journal of the Institution of Engineers (India).

Electronics & Telecommunication Engineering Division

Engineering Mechanics Devoted to Mechanical Civil, Mining and Electrical Engineering

Solar Energy Update

Fossil Energy Update

Journal of electricity, power, and gas

Рипол Классик

The Electrician