

Electrical By Hughes Engineering

A prodigiously researched biography of Vannevar Bush, one of America’s most awe-inspiring polymaths and the secret force behind the biggest technological breakthroughs of the twentieth century. As the inventor and public entrepreneur who launched the Manhattan Project, helped to create the military-industrial complex, conceived a permanent system of government support for science and engineering, and anticipated both the personal computer and the Internet, Vannevar Bush is the twentieth century’s Ben Franklin. In this engaging look at one of America’s most awe-inspiring polymaths, writer G. Pascal Zachary brings to life an American original—a man of his time, ours, and beyond. Zachary details how Bush cofounded Raytheon and helped build one of the most powerful early computers in the world at MIT. During World War II, he served as Roosevelt’s adviser and chief contact on all matters of military technology, including the atomic bomb. He launched the Manhattan Project and oversaw a collection of 6,000 civilian scientists who designed scores of new weapons. After the war, his attention turned to the future. He wrote essays that anticipated the rise of the Internet and boldly equated national security with research strength, outlining a system of permanent federal funding for university research that endures to this day. However, Bush’s hopeful vision of science and technology was leavened by an understanding of the darker possibilities. While cheering after witnessing the Trinity atomic test, he warned against the perils of a nuclear arms race. He led a secret appeal to convince President Truman not to test the Hydrogen Bomb and campaigned against the Red Scare. Elegantly and expertly relayed by Zachary, Vannevar’s story is a grand tour of the digital leviathan we know as the modern American life.

This is the 21st Volume in the series Memorial Tributes compiled by the National Academy of Engineering as a personal remembrance of the lives and outstanding achievements of its members and foreign associates. These volumes are intended to stand as an enduring record of the many contributions of engineers and engineering to the benefit of humankind. In most cases, the authors of the tributes are contemporaries or colleagues who had personal knowledge of the interests and the engineering accomplishments of the deceased. Through its members and foreign associates, the Academy carries out the responsibilities for which it was established in 1964. Under the charter of the National Academy of Sciences, the National Academy of Engineering was formed as a parallel organization of outstanding engineers. Members are elected on the basis of significant contributions to engineering theory and practice and to the literature of engineering or on the basis of demonstrated unusual accomplishments in the pioneering of new and developing fields of technology. The National Academies share a responsibility to advise the federal government on matters of science and technology. The expertise and credibility that the National Academy of Engineering brings to that task stem directly from the abilities, interests, and achievements of our members and foreign associates, our colleagues and friends, whose special gifts we remember in this book.

Analogue designers from industry and academia worldwide have contributed to this first volume devoted entirely to switched-current analogue signal processing. The volume introduces the basic switched- current technique, reviews the state-of-the-art, and presents practical chip examples. Numerous application areas are described, ranging from filters and data converters to image processing applications. It also gives a comprehensive treatment of the fundamental principles of switched-current circuits and systems. For undergraduate and graduate students and practicing engineers in industry. Distributed by INSPEC. Annotation copyright by Book News, Inc., Portland, OR

Hughes Electrical and Electronic Technology

Introduction to Electrical Engineering [by] William H. Hayt, Jr. [and] George W. Hughes

Lemonade Mouth

Electrification in Western Society, 1880-1930

Engineering Science, 6th ed

Electrical Systems in Buildings

Comprehensive engineering science coverage that is fully in line with the latest vocational course requirements New chapters on heat transfer and fluid mechanics Topic-based approach ensures that this text is suitable for all vocational engineering courses Coverage of all the mechanical, electrical and electronic principles within one volume provides a comprehensive exploration of scientific principles within engineering Engineering Science is a comprehensive textbook suitable for all vocational and pre-degree courses. Taking a subject-led approach, the essential scientific principles engineering students need for their studies are topic-by-topic based in presntation. Unlike most of the textbooks available for this subject, Bill Bolton goes beyond the core science to include the mechanical, electrical and electronic principles needed in the majority of courses. A concise and accessible text is supported by numerous worked examples and problems, with a complete answer section at the back of the book. Now in its sixth edition, the text has been fully updated in line with the current BTEC National syllabus and will also prove an essential reference for students embarking on Higher National engineering qualifications and Foundation Degrees.

This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples, enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering, electronics and telecommunications. No previous background in engineering is assumed, making this an ideal text for vocational courses at Levels 2 and 3, foundation degrees and introductory courses for undergraduates.

*Written for non-specialist users of electric motors and drives, this book explains how electric drives work and compares the performance of the main systems, with many examples of applications. The author’s approach - using a minimum of mathematics - has made this book equally popular as an outline for professionals and an introductory student text. * First edition (1990) has sold over 6000 copies. Drives and Controls on the first edition: 'This book is very readable, up-to-date and should be extremely useful to both users and o.e.m. designers. I unhesitatingly recommend it to any busy engineer who needs to make informed judgements about selecting the right drive system.'*

*New features of the second edition: * New section on the cycloconverter drive. * More on switched reluctance motor drives. * More on vector-controlled induction motor drives. * More on power switching devices. * New 'question and answer' sections on common problems and misconceptions. * Updating throughout. Electric Motors and Drives is for non-specialist users of electric motors and drives. It fills the gap between specialist textbooks (which are pitched at a level which is too academic for the average user) and the more prosaic 'handbooks' which are filled with useful detail but provide little opportunity for the development of any real insight or understanding. The book explores most of the widely-used modern types of motor and drive, including conventional and brushless d.c., induction motors (mains and inverter-fed), stepping motors, synchronous motors (mains and converter-fed) and reluctance motors.*

Fundamentals of Electrical Engineering, Based on the Rationalized M. K. S. System of Units

Nanoelectromechanics in Engineering and Biology

Electrical Circuit Theory and Technology

New Directions in the Sociology and History of Technology

The Electrician Electrical Trades Directory and Handbook

Vannevar Bush, Engineer of the American Century

This is a biography of a major American inventor, who obtained more than 350 patents during his lifetime. Elmer Sperry contributed greatly to the technological changes occurring between 1880 and 1930.

How is society influenced by engineering and technology? How in turn does society shape engineering and technology? This book from the National Academy of Engineering explores ways in which technology and society form inseparable elements in a complex sociotechnical system. The essays in this volume are based on the proposition that many forces move and shape engineering, technology, culture, and society. Six specialists both inside and outside the field of engineering offer views on how engineering responds to society’s needs and how social forces shape what engineers do and what they can achieve.

Awarded the Dexter Prize by the Society for the History of Technology, this book offers a comparative history of the evolution of modern electric power systems. It described large-scale technological change and demonstrates that technology cannot be understood unless placed in a cultural context.

Introduction to Airborne Radar

Memorial Tributes

Introduction to Electrical Engineering

The Electrical Engineer

An Analogue Technique for Digital Technology

Electrical and Electronic Principles and Technology

To most people, technology has been reduced to computers, consumer goods, and military weapons; we speak of "technological progress" in terms of RAM and CD-ROMs and the flatness of our television screens. In Human-Built World, thankfully, Thomas Hughes restores to technology the conceptual richness and depth it deserves by chronicling technology expressed by influential Western thinkers who not only understood its multifaceted character but who also explored its creative potential. Hughes draws on an enormous range of literature, art, and architecture to explore what technology has brought to society and culture, and to explain how we might begin to develop an "ecology" of technology against, ecological systems. From the "Creator" model of development of the sixteenth century to the "big science" of the 1940s and 1950s to the architecture of Frank Gehry, Hughes nimbly charts the myriad ways that technology has been woven into the social and cultural fabric of different eras and the promises and problems it has offered. For instance, optimistically hoped that technology could be combined with nature to create an Edenic environment; Lewis Mumford, two centuries later, warned of the increasing mechanization of American life. Such divergent views, Hughes shows, have existed side by side, demonstrating the fundamental idea that "in its variety, technology is not a human folly, saved by occasional benign deeds, and rich with unintended consequences." In Human-Built World, he offers the highly engaging history of these contradictions, follies, and consequences, a history that resurrects technology, rightfully, as more than gadgetry: it is in fact no less than an embodiment of human values.

Poets. Geniuses. Revolutionaries. The members of the legendary band Lemonade Mouth have been called all of these things. But until now, nobody’s known the inside story of how this powerhouse band came to be. How five outcasts in Opoquonsett High School’s freshman class found each other, found the music, and went on to change the world. This school as we know it. Wen, Stella, Charlie, Olivia, and Mo take us back to that fateful detention where a dentist’s jingle, a teacher’s coughing fit, and a beat-up ukelele gave birth to Rhode Island’s most influential band. Told in each of their five voices and compiled by Opoquonsett’s "scene queen," freshman Naomi Fishmeier, this anthology is a must-read for anyone who loves music.

Covering the fundamentals of electrical technology and uses these to introduce the application of electrical and electronic systems, this text had been updated to include recent developments in technology. It avoids unnecessary mathematics and features improved teaching aids, including: worked examples; updated and graded review questions; and chapter summaries. It is designed for use by students on NC, HNC and HND courses in electrical and electronic engineering.

J.A. Berly’s Universal Electrical Directory and Advertiser

Hughes Electrical Technology

Engineering as a Social Enterprise

Climate Crisis and the Hope of Renewable Energy

Switched-currents

Practical Electric Motor Handbook

An incredible true tale of espionage and engineering set at the height of the Cold War—a mix between The Hunt for Red October and Argo—about how the CIA, the U.S. Navy, and America’s most eccentric mogul spent six years and nearly a billion dollars to steal the nuclear-armed Soviet submarine K-129 after it had sunk to the bottom of the Pacific Ocean; all while the Russians were watching. In the early hours of February 25, 1968, a Russian submarine armed with three nuclear ballistic missiles set sail from its base in Siberia on a routine combat patrol to Hawaii. Then it vanished. As the Soviet Navy searched in vain for the lost vessel, a small, highly classified American operation using sophisticated deep-sea spy equipment found it—wrecked on the sea floor at a depth of 16,800 feet, far beyond the capabilities of any salvage that existed. But the potential intelligence assets onboard the ship—the nuclear warheads, battle orders, and cryptological machines—justified going to extreme lengths to find a way to raise the submarine. So began Project Azorian, a top-secret mission that took six years, cost an estimated \$800 million, and would become the largest and most daring covert operation in CIA history. After the U.S. Navy declared retrieving the sub “impossible,” the mission fell to the CIA’s burgeoning Directorate of Science and Technology, the little-known division responsible for the legendary U-2 and SR-71 Blackbird spy planes. Working with Global Marine Systems, the country’s foremost maker of exotic, deep-sea drilling vessels, the CIA commissioned the most expensive ship ever built and told the world that it belonged to the reclusive billionaire Howard Hughes, who would use the mammoth ship to mine rare minerals from the ocean floor. In reality, a complex network of spies, scientists, and politicians attempted a project even crazier than Hughes’s reputation: raising the sub directly under the watchful eyes of the Russians. The Taking of K-129 is a riveting, almost unbelievable true-life tale of military history, engineering genius, and high-stakes spy-craft set during the height of the Cold War, when nuclear annihilation was a constant fear, and the opportunity to gain even the slightest advantage over your enemy was worth massive risk.

This best-selling textbook, now in its eleventh edition, provides the clear and accessible introduction to electrical and electronic technology that all engineering students need. With a balanced coverage of electrical, electronic, and power engineering,Hughes Electrical and Electronic Technology is a must-have text for all university and college engineering students, including those not studying for an electrical or electronic degree. It is also appropriate as a reference for practitioners and technicians working in this, or any other engineering discipline. This edition has been significantly updated to include more on green topics like renewable energy and smart grid systems, and on technological advances such as particle accelerators. Key features include; chapter objectives and summaries plus worked examples and numerous practice problems.

This is the 20th Volume in the series Memorial Tributes compiled by the National Academy of Engineering as a personal remembrance of the lives and outstanding achievements of its members and foreign associates. These volumes are intended to stand as an enduring record of the many contributions of engineers and engineering to the benefit of humankind. In most cases, the authors of the tributes are contemporaries or colleagues who had personal knowledge of the interests and the engineering accomplishments of the deceased. Through its members and foreign associates, the Academy carries out the responsibilities for which it was established in 1964. Under the charter of the National Academy of Sciences, the National Academy of Engineering was formed as a parallel organization of outstanding engineers. Members are elected on the basis of significant contributions to engineering theory and practice and to the literature of engineering or on the basis of demonstrated unusual accomplishments in the pioneering of new and developing fields of technology. The National Academies share a responsibility to advise the federal government on matters of science and technology. The expertise and credibility that the National Academy of Engineering brings to that task stem directly from the abilities, interests, and achievements of our members and foreign associates, our colleagues and friends, whose special gifts we remember in this book.

Rescuing Prometheus

Fundamentals, Types and Applications

Inventor and Engineer

Electric Powertrain

UEL

Who Owns the Wind?

An introduction to the subject for non-specialists: engineers, technicians, pilots, and aerospace industry marketing, public relations, and customer support personnel. Also a reference for specialists in the field. The completely rewritten and revised Second Edition updates the original published by the Hughes Aircraft Company.

A comprehensive introduction to electrical and electronic engineering. This revised and updated edition (sixth was 1987) finds the text divided into four parts, covering electrical principles, electronic engineering, power engineering, and measurements. This edition also incorporates two-color illustrations, and puts a greater emphasis on electrical systems and less on circuit analysis. Includes numerous worked examples and end-of-chapter exercises. Annotation copyright by Book News, Inc., Portland, OR

An anniversary edition of an influential book that introduced a groundbreaking approach to the study of science, technology, and society. This pioneering book, first published in 1987, launched the new field of social studies of technology. It introduced a method of inquiry—social construction of technology, or SCOT—that became a key part of the wider discipline of science and technology studies. The book helped the MIT Press shape its STS list and inspired the Inside Technology series. The thirteen essays in the book tell stories about such varied technologies as thirteenth-century galleys, eighteenth-century cooking stoves, and twentieth-century missile systems. Taken together, they affirm the fruitfulness of an approach to

the study of technology that gives equal weight to technical, social, economic, and political questions, and they demonstrate the illuminating effects of the integration of empirics and theory. The approaches in this volume—collectively called SCOT (after the volume's title) have since broadened their scope, and twenty-five years after the publication of this book, it difficult to think of a technology that has not been studied from a SCOT perspective and impossible to think of a technology that cannot be studied that way.

Volume 20

The Universal Electrical Directory (J.A. Berly's).

Endless Frontier

Electrical and Electronic Technology

Energy Systems, Power Electronics and Drives for Hybrid, Electric and Fuel Cell Vehicles

This resource features discussion on static and dynamic regulation, loop rise time, automatic gain control design verification, square law detector test circuit, and linear detector test circuit as well as logarithmic amplification and other mathematical formulas. (Technology & Industrial Arts)

The why, what and how of the electric vehicle powertrain Empowers engineering professionals and students with the knowledge and skills required to engineer electric vehicle powertrain architectures, energy storage systems, power electronics converters and electric drives. The modern electric powertrain is relatively new for the automotive industry, and engineers are challenged with designing affordable, efficient and high-performance electric powertrains as the industry undergoes a technological evolution. Co-authored by two electric vehicle (EV) engineers with decades of experience designing and putting into production all of the powertrain technologies presented, this book provides readers with the hands-on knowledge, skills and expertise they need to rise to that challenge. This four-part practical guide provides a comprehensive review of battery, hybrid and fuel cell EV systems and the associated energy sources, power electronics, machines, and drives. The first part of the book begins with a historical overview of electromobility and the related environmental impacts motivating the development of the electric powertrain. Vehicular requirements for electromechanical propulsion are then presented. Battery electric vehicles (BEV), fuel cell electric vehicles (FCEV), and conventional and hybrid electric vehicles (HEV) are then described, contrasted and compared for vehicle propulsion. The second part of the book features in-depth analysis of the electric powertrain traction machines, with a particular focus on the induction machine and the surface- and interior-permanent magnet ac machines. The brushed dc machine is also considered due to its ease of operation and understanding, and its historical place, especially as the traction machine on NASA's Mars rovers. The third part of the book features the theory and applications for the propulsion, charging, accessory, and auxiliary power electronics converters. Chapters are presented on isolated and non-isolated dc-dc converters, traction inverters, and battery charging. The fourth part presents the introductory and applied electromagnetism required as a foundation throughout the book. • Introduces and holistically integrates the key EV powertrain technologies. • Provides a comprehensive overview of existing and emerging automotive solutions. • Provides experience-based expertise for vehicular and powertrain system and sub-system level study, design, and optimization. • Presents many examples of powertrain technologies from leading manufacturers. • Discusses the dc traction machines of the Mars rovers, the ultimate EVs from NASA. • Investigates the environmental motivating factors and impacts of electromobility. • Presents a structured university teaching stream from introductory undergraduate to postgraduate. • Includes real-world problems and assignments of use to design engineers, researchers, and students alike. • Features a companion website with numerous references, problems, solutions, and practical assignments. • Includes introductory material throughout the book for the general scientific reader. • Contains essential reading for government regulators and policy makers. Electric Powertrain: Energy Systems, Power Electronics and Drives for Hybrid, Electric and Fuel Cell Vehicles is an important professional resource for practitioners and researchers in the battery, hybrid, and fuel cell EV transportation industry. The book is a structured holistic textbook for the teaching of the fundamental theories and applications of energy sources, power electronics, and electric machines and drives to engineering undergraduate and postgraduate students. Textbook Structure and Suggested Teaching Curriculum This is primarily an engineering textbook covering the automotive powertrain, energy storage and energy conversion, power electronics, and electrical machines. A significant additional focus is placed on the engineering design, the energy for transportation, and the related environmental impacts. This textbook is an educational tool for practicing engineers and others, such as transportation policy planners and regulators. The modern automobile is used as the vehicle upon which to base the theory and applications, which makes the book a useful educational reference for our industry colleagues, from chemists to engineers. This material is also written to be of interest to the general reader, who may have little or no interest in the power electronics and machines. Introductory science, mathematics, and an inquiring mind suffice for some chapters. The general reader can read the introduction to each of the chapters and move to the next as soon as the material gets too advanced for him or her. Part I Vehicles and Energy Sources Chapter 1 Electromobility and the Environment Chapter 2 Vehicle Dynamics Chapter 3 Batteries Chapter 4 Fuel Cells Chapter 5 Conventional and Hybrid Powertrains Part II Electrical Machines Chapter 6 Introduction to Traction Machines Chapter 7 The Brushed DC Machine Chapter 8 Induction Machines Chapter 9 Surface-permanent-magnet AC Machines Chapter 10: Interior-permanent-magnet AC Machines Part III Power Electronics Chapter 11 DC-DC Converters Chapter 12 Isolated DC-DC Converters Chapter 13 Traction Drives and Three-phase Inverters Chapter 14 Battery Charging Chapter 15 Control of the Electric Drive Part IV Basics Chapter 16 Introduction to Electromagnetism, Ferromagnetism, and Electromechanical Energy Conversion The first third of the book (Chapters 1 to 6), plus parts of Chapters 14 and 16, can be taught to the general science or engineering student in the second or third year. It covers the introductory automotive material using basic concepts from mechanical, electrical, environmental, and electrochemical engineering. Chapter 14 on electrical charging and Chapter 16 on electromagnetism can also be used as a general introduction to electrical engineering. The basics of electromagnetism, ferromagnetism and electromechanical energy conversion (Chapter 16) and dc machines (Chapter 7) can be taught to second year (sophomore) engineering students who have completed introductory electrical circuits and physics. The third year (junior) students typically have covered ac circuit analysis, and so they can cover ac machines, such as the induction machine (Chapter 8) and the surface permanent-magnet ac machine (Chapter 9). As the students typically have studied control theory, they can investigate the control of the speed and torque loops of the motor drive (Chapter 15). Power electronics, featuring non-isolated buck and boost converters (Chapter 11), can also be introduced in the third year. The final-year (senior) students can then go on to cover the more advanced technologies of the interior-permanent-magnet ac machine (Chapter 10). Isolated power converters (Chapter 12), such as the full-bridge and resonant converters, inverters (Chapter 13), and power-factor-corrected battery chargers (Chapter 14), are covered in the power electronics section. This material can also be covered at the introductory postgraduate level. Various homework, simulation, and research exercises are presented throughout the textbook. The reader is encouraged to attempt these exercises as part of the learning experience. Instructors are encouraged to contact the author, John Hayes, direct to discuss course content or structure.

Looks at how the military and private industry worked together on four projects, including the SAGE interactive digital computer, the Atlas Missile Project, the Boston Central Artery/Tunnel Project, and ARPANET, forerunner of the Internet

A Handbook for Technicians, Engineers, and Makers

Electric Motors and Drives

How the CIA Used Howard Hughes to Steal a Russian Sub in the Most Daring Covert Operation in History

Automatic Gain Control - Agc Electronics with Radio, Video and Radar Applications

The Social Construction of Technological Systems, anniversary edition

Volume 21

The energy transition has begun. To succeed - to replace fossil fuels with wind and solar power - that process must be fair. Otherwise, mounting popular protest against wind farms will prolong carbon pollution and deepen the climate crisis. David Hughes examines that anti-industrial, anti-corporate resistance, drawing insights from a Spanish village surrounded by turbines. In the lives of these neighbours - freighted with centuries of exploitation - clean power and social justice fit together only awkwardly. Proposals for a green economy, the Green New Deal, or Europe's Green Deal require more effort. We must rethink aesthetics, livelihood, property, and, most essentially, the private nature of wind resources. Ultimately, the energy transition will be public and just, or it may not be at all

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The success, growth, and virtually limitless applications of nanotechnology depend upon our ability to manipulate nanoscale objects, which in turn depends upon developing new insights into the interactions of electric fields, nanoparticles, and the molecules that surround them. In the first book to unite and directly address particle electrokinetics and nanotechnology, Nanoelectromechanics in Engineering and Biology provides a thorough grounding in the phenomena associated with nanoscale particle manipulation. The author delivers a wealth of application and background knowledge, from using electric fields for particle sorting in lab-on-a-chip devices to electrode fabrication, electric field simulation, and computer analysis. It also explores how electromechanics can be applied to sorting DNA molecules, examining viruses, constructing electronic devices with carbon nanotubes, and actuating nanoscale electric motors. The field of nanotechnology is inherently multidisciplinary-in its principles, in its techniques, and in its applications-and meeting its current and future challenges will require the kind of approach reflected in this book. Unmatched in its scope, Nanoelectromechanics in Engineering and Biology offers an outstanding opportunity for people in all areas of research and technology to explore the use and precise manipulation of nanoscale structures.

Hughes Electrical & Electronic Technology

Networks of Power

The Taking of K-129

Fundamentals of Electrical Engineering

Adapted Movie Tie-In Edition

Arduino: A Technical Reference

Electrical Circuit Theory and Technology is a fully comprehensive text for courses in electrical and electronic principles, circuit theory and electrical technology. The coverage takes students from the fundamentals of the subject, to the completion of a first year degree level course. Thus, this book is ideal for students studying engineering for the first time, and is also suitable for pre-degree vocational courses, especially where progression to higher levels of study is likely. John Bird's approach, based on 700 worked examples supported by over 1000 problems (including answers), is ideal for students of a wide range of abilities, and can be worked through at the student's own pace. Theory is kept to a minimum, placing a firm emphasis on problem-solving skills, and making this a thoroughly practical introduction to these core subjects in the electrical and electronic engineering curriculum. This revised edition includes new material on transients and laplace transforms, with the content carefully matched to typical undergraduate modules. Free Tutor Support Material including full worked solutions to the assessment papers featured in the book will be available at <http://textbooks.elsevier.com/>. Material is only available to lecturers who have adopted the text as an essential purchase. In order to obtain your password to access the material please follow the guidelines in the book.

Rather than yet another project-based workbook, Arduino: A Technical Reference is a reference and handbook that thoroughly describes the electrical and performance aspects of an Arduino board and its software. This book brings together in one place all the information you need to get something done with Arduino. It will save you from endless web searches and digging through translations of datasheets or notes in project-based texts to find the information that corresponds to your own particular setup and question. Reference features include pinout diagrams, a discussion of the AVR microcontrollers used with Arduino boards, a look under the hood at the firmware and run-time libraries that make the Arduino unique, and extensive coverage of the various shields and add-on sensors that can be used with an Arduino. One chapter is devoted to creating a new shield from scratch. The book wraps up with detailed descriptions of three different projects: a programmable signal generator, a "smart" thermostat, and a programmable launch sequencer for model rockets. Each project highlights one or more topics that can be applied to other applications.

Hughes Electrical & Electronic TechnologyHughes Electrical and Electronic TechnologyPearson Education IndiaElectrical and Electronic TechnologyUELPearson Higher Ed

Handbook of Electrical Engineering Calculations

Human-Built World

Elmer Sperry

How to Think about Technology and Culture

Written by experienced teachers and recognized experts in electrical engineering, Handbook of Electrical Engineering Calculations identifies and solves the seminal problems with numerical techniques for the principal branches of the field -- electric power, electromagnetic fields, signal analysis, communication systems, control systems, and computer engineering. It covers electric power engineering, electromagnetics, algorithms used in signal analysis, communication systems, algorithms used in control systems, and computer engineering. Illustrated with detailed equations, helpful drawings, and easy-to-understand tables, the book serves as a practical, on-the-job reference.

Divided into four parts: circuits, electronics, digital systems, and electromagnetics, this text provides an understanding of the fundamental principles on which modern electrical engineering is based. It is suitable for a variety of electrical engineering courses, and can also be used as a text for an introduction to electrical engineering.

Experienced product designers are increasingly expected to be adept at incorporating a range of components into their designs. Students and experimenters too need to look beyond basic circuits and devices to achieve adequate design solutions. For those experienced in engineering design, this is the guide to electric motors. This book will allow engineers and designers to marry the technologies they know about with motor technology, and hence to incorporate motors into their products. Of the many good books on motors, such as Electric Motors and Drives by Hughes, none offer the engineering professional a tailored guide to motors taking into account their expertise. This book fills that gap. Irving Gottlieb is a leading author of many books for practising engineers, technicians and students of electronic and electrical engineering. Practical approach with minimum theory Covers a core area ignored by many electronics texts Shows how to incorporate motors into electronic products