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## **Numerical Computation of Electric and Magnetic Fields** - Charles W. Steele 2012-12-06

Since the first edition of this book was published in 1987, there have been several important changes in the state of numerical field computation, as discussed in the Introduction. These changes have motivated the publication of this second edition. As with the first edition, the objective of this second edition is to give the newcomer to field computation the information needed to perform practical field computations. Again, clarity of presentation is given greater emphasis than a high degree of sophistication or the state of the art. And again, the basic concepts of field computation are presented as well as the commonly used algorithms. Several persons have provided much valuable information for this second edition. I wish to thank Professor Giorgio Molinari of the University of Genoa, Italy for advice regarding adaptive mesh generation; Dr. C. R. E. Emson of Vector Fields, Ltd., England and Dr. John Brauer of McNeal-Schwendler Corp. for their advice on transient eddy current computation; and Dr. Zoltan Cendes of Ansoft Corp. for information about their adaptive mesh generator. Again, I would like to acknowledge the support for this second edition by my wife, Candace. Again, I could not have written this book without her support.

## *EC&Ms Electrical Calculations Handbook* - Paschal 2000-12-15

The most frequently used electrical calculations--worked out in an instant-access format Edited by John Paschal, EC;M's Electrical Calculations Handbook brings you the expertise of two of the industry's most respected names: McGraw-Hill and EC;M (Electrical Construction ; Maintenance) Magazine--the premiere magazine for electrical design, construction, and maintenance. This handy guide packs all the essential calculations every electrical professional needs to properly design, install, and maintain electrical equipment, from wiring and circuits, to batteries and generators. You get basic electrical working definitions and concepts, and coverage of three-phase systems; math for electrical calculations, power factor correction, and calculations for harmonics; conductors; short-circuit calculations; grounding; lighting; transformers; motors; raceways; overcurrent devices; circuits for special loads; electrical design and layout calculations; electrical cost estimating; and conversion calculations.

## **The Electrician** - 1903

## **J.A. Berly's British, American and Continental Electrical Directory and Advertiser** - 1883

Containing a complete record of all the industries directly or indirectly connected with electricity and magnetism ...

## Mechanics Magazine - John I Knight 1823

## Engineering Magazine - 1895

## **Herapath's Railway Magazine, Commercial Journal, and Scientific Review** - 1893

## Historical and Archaeological Perspectives on Gender Transformations - Suzanne M. Spencer-Wood 2012-12-09

In many facets of Western culture, including archaeology, there remains a legacy of perceiving gender divisions as natural, innate, and biological in origin. This belief follows that men are naturally pre-disposed to public, intellectual pursuits, while women are innately designed to care for the home and take care of children. In the interpretation of material culture, accepted notions of gender roles are often applied to new

findings: the dichotomy between the domestic sphere of women and the public sphere of men can color interpretations of new materials. In this innovative volume, the contributors focus explicitly on analyzing the materiality of historic changes in the domestic sphere around the world. Combining a global scope with great temporal depth, chapters in the volume explore how gender ideologies, identities, relationships, power dynamics, and practices were materially changed in the past, thus showing how they could be changed in the future.

## *The Philosophical Magazine* - 1865

## The Gentleman's Magazine: Or, Monthly Intelligencer - Edward Cave 1745

## The Canadian Magazine of Science and the Industrial Arts, Patent Office Record - 1885

## **The Electrician Electrical Trades Directory and Handbook** - 1895

## **The Electrical Magazine** - 1909

## PC Mag - 1999-06-22

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

## *Repertorium der technischen journal-literatur* - 1890

## *The Electrical Magazine and Engineering Monthly* - Theodore John Valentine Feilden 1910

## *Ferroelectric Thin Films* - Carlos Paz de Araujo 1996

The impetus for the rapid development of thin film technology, relative to that of bulk materials, is its application to a variety of microelectronic products. Many of the characteristics of thin film ferroelectric materials are utilized in the development of these products - namely, their nonvolatile memory and piezoelectric, pyroelectric, and electro-optic properties. It is befitting, therefore, that the first of a set of three complementary books with the general title Integrated Ferroelectric Devices and Technologies focuses on the synthesis of thin film ferroelectric materials and their basic properties. Because it is a basic introduction to the chemistry, materials science, processing, and physics of the materials from which integrated ferroelectrics are made, newcomers to this field as well as veterans will find this book self-contained and invaluable in acquiring the diverse elements requisite to success in their work in this area. It is directed at electronic engineers and physicists as well as process and system engineers, ceramicists, and chemists involved in the research, design, development, manufacturing, and utilization of thin film ferroelectric materials.

## Air Force Magazine - 2013

## The Mechanics' Magazine Museum, Register, Journal, and Gazette - 1851

**Wesleyan-Methodist Magazine** - 1778

Philosophical Magazine - 1833

Electrical Processes in Atmospheres - H. Dolezalek 2012-12-06

These Proceedings are published to give a full account of the Fifth International Conference on Atmospheric Electricity held in September 1974 in Garmisch-Partenkirchen in the Bavarian Alps in Germany. Traditionally, the Proceedings of these Conferences have served as reference books updating the textbooks and monographs on Atmospheric Electricity. As treated by these Conferences, Atmospheric Electricity covers all aspects of this science, including the processes and problems which reach out into the Earth's environment as well as analogous processes on other planets and on the Moon. A history of these Conferences, an account of their purpose, and an outline of the scope and the preparation is to be found at the end of these Proceedings. There, also the Business Meetings of the involved organizations are mentioned. The Proceedings closely follow the original program and are accordingly organized into "Sessions". The papers printed in each "Session" in this book are the ones which were accepted for the sessions of the Conference with the same numbers and titles. Only the two "Special Sessions" have been given different numbers in the Proceedings, i.e. 2a and 10. In principle, all papers which were accepted by the Executive Panel either for full oral presentation or for printing in the Proceedings only, have in fact been included in these Proceedings, whether they were presented or not. In the latter case, a special note is made to explain the absence of a discussion.

Telephone Magazine - 1893

**The Electrical Journal** - 1894

**The American Monthly Magazine** - 1837

**Electrical Energy Efficiency** - Andreas Sumper 2012-03-15

The improvement of electrical energy efficiency is fast becoming one of the most essential areas of sustainability development, backed by political initiatives to control and reduce energy demand. Now a major topic in industry and the electrical engineering research community, engineers have started to focus on analysis, diagnosis and possible solutions. Owing to the complexity and cross-disciplinary nature of electrical energy efficiency issues, the optimal solution is often multi-faceted with a critical solutions evaluation component to ensure cost effectiveness. This single-source reference brings a practical focus to the subject of electrical energy efficiency, providing detailed theory and practical applications to enable engineers to find solutions for electroefficiency problems. It presents power supplier as well as electricity user perspectives and promotes routine implementation of good engineering practice. Key features include: a comprehensive overview of the different technologies involved in electroefficiency, outlining monitoring and control concepts and practical design techniques used in industrial applications; description of the current standards of electrical motors, with illustrative case studies showing how to achieve better design; up-to-date information on standardization, technologies, economic realities and energy efficiency indicators (the main types and international results); coverage on the quality and efficiency of distribution systems (the impact on distribution systems and loads, and the calculation of power losses in distribution lines and in power transformers). With invaluable practical advice, this book is suited to practicing electrical engineers, design engineers, installation designers, M&E designers, and economic engineers. It equips maintenance and energy managers, planners, and infrastructure managers with the necessary knowledge to properly evaluate the wealth of electrical energy efficiency solutions for large investments. This reference also provides interesting reading material for energy researchers, policy makers, consultants, postgraduate engineering students and final year undergraduate engineering students.

The EC Archives: Shock Suspenstories Volume 2 - Bill Gaines 2022-11-15

The classic EC series, presented as a deluxe-size trade paperback! This high-quality trade reprints the issues #7-#12 of the pulp-comic classic Shock SuspenStories! Featuring 24 stories by the all-star artistic

talents of Al Feldstein, Jack Kamen, Jack Davis, Joe Orlando, Al Williamson, and Wally Wood.

Microwave Acoustics Handbook - A. J. Slobodnik (Jr.) 1973

Information essential for the design of acoustic surface wave filters, signal processors, and other miniature, low cost, reliable devices for use in communications and electronic sensing is given in this report.

Computations of surface wave velocity and electromechanical power flow angle, and estimates of surface wave coupling to interdigital transducers are given for various orientations of the following surface wave substrate materials: Ba<sub>2</sub>NaNb<sub>5</sub>O<sub>15</sub>, Bi<sub>12</sub>GeO<sub>20</sub>, CdS, Diamond, Eu<sub>3</sub>Fe<sub>5</sub>O<sub>15</sub>, Gadolinium Gallium Garnet, GaAs, Germanium, InSb, InAs, PbS, LiNbO<sub>3</sub>, MgO, Quartz, Rutile, Sapphire, Silicon, Spinel, TeO<sub>2</sub>, YAG, YGaG, YIG, and ZnO. Particular cuts of interest are then chosen for more detailed numerical calculations of mechanical and electrical parameters governing acoustic wave propagation in crystalline media. Similar data is given for common metals. A list of material constants and a bibliography of 520 surface wave papers are also included. (Author).

Linear Electric Machines, Drives, and MAGLEVs Handbook - Ion Boldea 2017-12-19

Based on author Ion Boldea's 40 years of experience and the latest research, Linear Electric Machines, Drives, and Maglevs Handbook provides a practical and comprehensive resource on the steady improvement in this field. The book presents in-depth reviews of basic concepts and detailed explorations of complex subjects, including classifications and practical topologies, with sample results based on an up-to-date survey of the field. Packed with case studies, this state-of-the-art handbook covers topics such as modeling, steady state, and transients as well as control, design, and testing of linear machines and drives. It includes discussion of types and applications—from small compressors for refrigerators to MAGLEV transportation—of linear electric machines. Additional topics include low and high speed linear induction or synchronous motors, with and without PMs, with progressive or oscillatory linear motion, from topologies through modeling, design, dynamics, and control. With a breadth and depth of coverage not found in currently available references, this book includes formulas and methods that make it an authoritative and comprehensive resource for use in R&D and testing of innovative solutions to new industrial challenges in linear electric motion/energy automatic control.

*The Gentleman's Magazine* - 1745

Contains opinions and comment on other currently published newspapers and magazines, a selection of poetry, essays, historical events, voyages, news (foreign and domestic) including news of North America, a register of the month's new publications, a calendar of forthcoming trade fairs, a summary of monthly events, vital statistics (births, deaths, marriages), preferments, commodity prices. Samuel Johnson contributed parliamentary reports as "Debates of the Senate of Magna Lilliputia."

*PC Mag* - 1994-03-29

PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

**Locomotive Magazine and Railway Carriage & Wagon Review** - 1914

*The Magazine of Science, and Schools of Art* - 1841

**Plasma and Spot Phenomena in Electrical Arcs** - Isak Beilis 2020-09-05

This book is devoted to a thorough investigation of the physics and applications of the vacuum arc – a highly-ionized metallic plasma source used in a number of applications – with emphasis on cathode spot phenomena and plasma formation. The goal is to understand the origins and behavior of the various complex and sometimes mysterious phenomena involved in arc formation, such as cathode spots, electrode vaporization, and near-electrode plasma formation. The book takes the reader from a model of dense cathode plasma based on charge-exchange ion-atom collisions through a kinetic approach to cathode vaporization and on to metal thermophysical properties of cathodes. This picture is further enhanced by an in-depth study of cathode jets and plasma acceleration, the effects of magnetic fields on cathode spot behavior, and electrical characteristics of arcs and cathode spot dynamics. The book also describes applications to space propulsion, thin film deposition, laser plasma generation, and magnetohydrodynamics,

making this comprehensive and up-to-date volume a valuable resource for researchers in academia and industry.

**Electric Generators Handbook - Two Volume Set** - Ion Boldea 2018-10-08

Electric Generators Handbook, Second Edition: Two-Volume Set supplies state-of-the-art tools necessary to design, validate, and deploy the right power generation technologies to fulfill tomorrow's complex energy needs. The first volume, Synchronous Generators, explores large- and medium-power synchronous generator topologies, steady state, modeling, transients, control, design, and testing. Numerous case studies, worked-out examples, sample results, and illustrations highlight the concepts. Fully revised and updated to reflect the last decade's worth of progress in the field, the Second Edition adds coverage of high-power wind generators with fewer or no PMs, PM-assisted DC-excited salient pole synchronous generators, autonomous synchronous generators' control, line switching parameter identification for isolated grids, synthetic back-to-back load testing with inverter supply, and more. The second volume, Variable Speed Generators, provides extensive coverage of variable speed generators in distributed generation and renewable energy applications around the world. Numerous design and control examples illustrate the exposition. Fully revised and updated to reflect the last decade's worth of progress in the

field, the Second Edition adds material on doubly fed induction generator control under unbalanced voltage sags and nonlinear loads, interior permanent magnet claw-pole-alternator systems, high power factor Vernier PM generators, PM-assisted reluctance synchronous motors/generators for electric hybrid vehicles, and more.

South African Electrical Review and Power Magazine - 1962

The EC Archives: Shock SuspenStories - Al Feldstein 2017-08-23

This edition reprints the first six complete issues of the pulp-comic classic Shock SuspenStories! Featuring the titanic artistic talents of Al Feldstein, Jack Kamen, Jack Davis, Joe Orlando, Graham Ingles, and Wally Wood, with a foreword by Steven Spielberg! Includes all the original ads, text pieces, and letters!

**Electrical Engineering** - 1893

Vols. 1-2 include a "Syntopical index to current electrical literature".

Shock Suspenstories - 2016-03-29

Volume 1 collects Shock suspenstories #1-#6, originally published between February 1952 and January 1953 by I.C. Publishing Co., Inc.; foreword by Steven Spielberg.

The London, Edinburgh and Dublin Philosophical Magazine and Journal of Science - 1859