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electromagnetism is concerned with the numerical study of Maxwell equations completed by constitutive laws to account for the presence of matter and the field – matter interaction. Constitutive laws are an approximate but simple

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electromagnetics (CEM), computational
electrodynamics or electromagnetic
modeling is the process of modeling the
interaction of electromagnetic fields with

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physical objects and the environment.. It typically involves using computer programs to compute approximate solutions

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ELECTROMAGNETIC MODELING
AND ... computational electromagnetic
(CEM) models Figure 1 CEM Flowchart 3
Aircraft Test Campaign Before testing,
several lightning attachment scenarios were
selected in an

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computational electromagnetic (CEM) models. The aircraft is injected with different lighting current attachment scenarios while measurements of currents, voltages and magnetic fields focused in the composite

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wing area. The high fidelity aircraft model has been resolved with EMA3D software. It includes accurate structural features, fasteners, wiring and systems tubing.

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Our research activities cover many aspects in theoretical, computational, and experimental electromagnetics, such as the design of smart, reconfigurable antennas, fast algorithms for large-scale

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electromagnetic simulations, finite element methods for scattering, antenna, and high-frequency circuit analysis, bioelectromagnetics, electromagnetic compatibility, high-speed interconnection modeling and electronic packaging, inverse scattering and

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Computational electromagnetics, computational electrodynamics or electromagnetic modeling is the process of modeling the interaction of electromagnetic fields with physical objects and the environment. It typically involves using

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computer programs to compute approximate solutions to Maxwell's equations to calculate antenna performance, electromagnetic compatibility, radar cross section and electromagnetic wave propagation when not in free space. A large subfield is antenna modeling computer prog

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ICCES covers all aspects of applied sciences
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and solutions of problems in the physical, chemical, biological, mechanical, electrical, and mathematical sciences. As such, the book discusses highly diverse topics, including composites; bioengineering & biomechanics; geotechnical engineering; offshore & arctic engineering; multi-scale & multi-physics fluid engineering; structural

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Simulations in Engineering ...

This paper discusses the computational and experimental modeling of an EMS system that is capable of generating large magnitude stirring forces that are sinusoidally

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modulated at an arbitrarily low frequency.

The system is based on conventional, readily available EMS power supplies and stator/coil designs. Computational studies were based on an

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of an Advanced ...

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Computational and Experimental
Investigation of Distribution Transformers
Under Differential and Common Mode
Transient Conditions. Abstract:

Electromagnetic modeling of transformers is of paramount importance for the prediction of the transient behavior of the entire system during atmospheric overvoltages and

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Investigation of ...

Computational electromagnetism is
concerned with the numerical study of
Maxwell equations completed by
constitutive laws to account for the presence

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of matter and the field – matter interaction.
Constitutive laws are an approximate but
simple summary of a very complex
interaction between the compartment of
main interest and secondary ones.

Computational Electromagnetism |
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ABSTRACT This project is an interdisciplinary collaboration involving mathematical modeling, computational simulation and experimental data for accelerating the design of advanced electromagnetic nanocomposite materials as well as alternative power generators.

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Computational and Multi ...

This Special Issue of Magnetochemistry aims at publishing a collection of research contributions illustrating the recent advances in computational electromagnetic techniques needed to model and characterize complex magnetic materials,

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namely in the topics listed below.

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Electromagnetics"

Indeed, computational models have now
become a standard tool for assessing
proposed new biological mechanisms, often
considered essential even when the

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associated experimental evidence is strong.
Many of the computational advances
needed for these models came out of the
fields of engineering and physics.

Professor G. Wayne Brodland -
Computational Modeling

The integrated model has been used to study

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the electromagnetic and thermal phenomena in a pilot scale microwave applicator with and without the food package immersed in water. The calculated results are compared with the experimentally measured data for the thermal fields generated by the microwave heating occurring in a whey protein gel

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package, and reasonably good agreement
between the two is obtained.

Integrated Modeling of Microwave Food
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This unique book presents simple, easy-to-use, but effective short codes as well as virtual tools that can be used by electrical, electronic, communication, and computer

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engineers in a broad range of electrical engineering problems. Electromagnetic modeling is essential to the design and modeling of antenna, radar, satellite, medical imaging, and other applications. In this book, author Levent Sevgi explains techniques for solving real-time complex physical problems using MATLAB-

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based short scripts and comprehensive
virtual tools. Unique in coverage and
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Electromagnetic Modeling and Simulation
covers fundamental analytical and numerical
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summation approaches with the canonical 2D nonpenetrable parallel plate waveguide as well as FDTD, MoM, and SSPE scripts. The book also establishes an intelligent balance among the essentials of EMMODSIM: The Problem (the physics), The Theory and Models (mathematical background and analytical solutions), and The Simulations

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Electromagnetic Modeling and Simulation thoroughly covers the physics, mathematical background, analytical solutions, and code development of electromagnetic modeling, making it an ideal resource for electrical engineers and researchers.

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innovations, and applications in the field of computational engineering, as presented by leading international researchers and engineers at the 24th International Conference on Computational & Experimental Engineering and Sciences (ICCES), held in Tokyo, Japan on March 25-28, 2019. ICCES covers all aspects of

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applied sciences and engineering:
theoretical, analytical, computational, and
experimental studies and solutions of
problems in the physical, chemical,
biological, mechanical, electrical, and
mathematical sciences. As such, the book
discusses highly diverse topics, including
composites; bioengineering &

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biomechanics; geotechnical engineering;
offshore & arctic engineering; multi-scale &
multi-physics fluid engineering; structural
integrity & longevity; materials design &
simulation; and computer modeling
methods in engineering. The contributions,
which were selected by means of a rigorous
international peer-review process, highlight

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numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Containing papers presented at the seventeenth in a series of biennial meetings organised by the Wessex Institute and first held in 1984, this book includes the latest

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research from scientists who perform experiments, researchers who develop computer codes, and those who carry out measurements on prototypes and whose work may interact. Progress in the engineering sciences is dependent on the orderly and concurrent development of all three fields. Continuous improvement in

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computer efficiency, coupled with diminishing costs and rapid development of numerical procedures have generated an ever-increasing expansion of computational simulations that permeate all fields of science and technology. As these procedures continue to grow in magnitude and complexity, it is essential to be certain of

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their reliability, i.e. to validate their results.

This can be achieved by performing dedicated and accurate experiments. At the same time, current experimental techniques have become more complex and sophisticated so that they require the exploitation of computers, both for running experiments as well as acquiring and

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And Experimental processing the resulting data. The papers contained in the book address advances in the interaction between these three areas. They cover such topics as: Computational and Experimental Methods; Fluid Flow; Structural and Stress Analysis; Materials Characterisation; Heat Transfer and Thermal Processes; Advances in

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Computational Methods; Automotive Applications; Applications in Industry; Process Simulations; Environmental Modelling and Applications; Computer Modelling; Validation of Computer Modelling; Computation in Measurements; Data Processing of Experiments; Virtual Testing and Verification; Simulation and

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Co-authored by an international research group with a long-standing cooperation, this book focuses on engineering-oriented electromagnetic and thermal field modeling and application. It presents important contributions, including advanced and

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efficient finite element analysis used in the solution of electromagnetic and thermal field problems for large and multi-scale engineering applications involving application script development; magnetic measurement of both magnetic materials and components under various, even extreme conditions, based on well-

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established (standard and non-standard)
experimental systems; and multi-level
validation based on both industrial test
systems and extended TEAM P21
benchmarking platform. Although these are
challenging topics, they are useful for
readers from both academia and industry.

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Offers a comprehensive overview of the recent advances in the area of computational electromagnetics Computational Method in Electromagnetic Compatibility offers a review of the most recent advances in computational electromagnetics. The authors—*noted experts in the field*—examine similar problems by taking

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different approaches related to antenna theory models and transmission line methods. They discuss various solution methods related to boundary integral equation techniques and finite difference techniques. The topics covered are related to realistic antenna systems including antennas for air traffic control or ground penetrating

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radar antennas; grounding systems (such as grounding systems for wind turbines); biomedical applications of electromagnetic fields (such as transcranial magnetic stimulation); and much more. The text features a number of illustrative computational examples and a reference list at the end of each chapter. The book is

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grounded in a rigorous theoretical approach and offers mathematical details of the formulations and solution methods. This important text: Provides a trade-off between a highly efficient transmission line approach and antenna theory models providing analysis of high frequency and transient phenomena Contains the newest

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information on EMC analysis and design principles Discusses electromagnetic field coupling to thin wire configurations and modeling in bioelectromagnetics Written for engineering students, senior researchers and practicing electrical engineers,
Computational Method in Electromagnetic Compatibility provides a valuable resource

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in the design of equipment working in a
common electromagnetic environment.

This text combines the fundamentals of
electromagnetics with numerical modeling
to tackle a broad range of current
electromagnetic compatibility (EMC)
problems, including problems with

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lightning, transmission lines, and grounding systems. It sets forth a solid foundation in the basics before advancing to specialized topics, and allows readers to develop their own EMC computational models for applications in both research and industry.

Presents numerical algorithms, procedures,

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and techniques required to solve
engineering problems relating to the
interactions between electromagnetic fields
and fluid flow and interdisciplinary
technology for aerodynamics,
electromagnetics, chemical-physic kinetics,
and plasmadynamics Integrates interlinking
computational model and simulation

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techniques of aerodynamics and
electromagnetics Combines classic plasma
drift-diffusion theory and electron impact
ionization modeling for electromagnetic-
aerodynamic interactions Describes models
of internal degrees of freedom for vibration
relaxation and electron excitations

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This new resource covers the latest developments in computational electromagnetic methods, with emphasis on cutting-edge applications. This book is designed to extend existing literature to the latest development in computational electromagnetic methods, which are of interest to readers in both academic and

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industrial areas. The topics include advanced techniques in MoM, FEM and FDTD, spectral domain method, GPU and Phi hardware acceleration, metamaterials, frequency and time domain integral equations, and statistics methods in bio-electromagnetics.

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New possibilities have recently emerged for producing optical beams with complex and intricate structures, and for the non-contact optical manipulation of matter. Structured Light and Its Applications fully describes the electromagnetic theory, optical properties, methods and applications associated with this new technology. Detailed discussions

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are given of unique beam characteristics, such as optical vortices and other wavefront structures, the associated phase properties and photonic aspects, along with applications ranging from cold atom manipulation to optically driven micromachines. Features include:
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results Graduate students and established researchers in academia, national laboratories and industry will find this book an invaluable guide to the latest technologies in this rapidly developing field.

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And applications - all is presented in detail
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generation and manipulation of complex
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This book is a self-contained, programming-
oriented and learner-centered book on finite

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element method (FEM), with special emphasis given to developing MATLAB® programs for numerical modeling of electromagnetic boundary value problems. It provides a deep understanding and intuition of FEM programming by means of step-by-step MATLAB® programs with detailed descriptions, and eventually

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enabling the readers to modify, adapt and apply the provided programs and formulations to develop FEM codes for similar problems through various exercises. It starts with simple one-dimensional static and time-harmonic problems and extends the developed theory to more complex two- or three-dimensional problems. It supplies

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sufficient theoretical background on the topic, and it thoroughly covers all phases (pre-processing, main body and post-processing) in FEM. FEM formulations are obtained for boundary value problems governed by a partial differential equation that is expressed in terms of a generic unknown function, and then, these

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formulations are specialized to various electromagnetic applications together with a post-processing phase. Since the method is mostly described in a general context, readers from other disciplines can also use this book and easily adapt the provided codes to their engineering problems. After forming a solid background on the

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fundamentals of FEM by means of canonical problems, readers are guided to more advanced applications of FEM in electromagnetics through a survey chapter at the end of the book. Offers a self-contained and easy-to-understand introduction to the theory and programming of finite element method. Covers various applications in the

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field of static and time-harmonic
electromagnetics. Includes one-, two- and
three-dimensional finite element codes in
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