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protective order may (as here) be overturned or modified ...

Government Can Use Ghislaine Maxwell's Deposition in Civil Case, Without Violating Maxwell's Fourth or Fifth Amendment Rights

Accused sex trafficker Ghislaine Maxwell has had her request to block prosecutors from using interviews she gave during her November sex trafficking trial in her upcoming criminal trial rejected ...

Ghislaine Maxwell loses bid to ban depositions from jail
Maxwell was already facing six counts tied to Epstein's

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alleged sex trafficking network, but in March federal prosecutors expanded the criminal case against her with an eight-count indictment accusing ...

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This book is an introduction to the concepts and developments of emerging electric machines, including advances, perspectives, and selected applications. It is a helpful tool for practicing engineers concerned with emerging electric machines and their challenges and potential uses. Chapters cover such topics as electric machines with axial magnetic flux, asynchronous machines with dual power supply, new designs for electrical machines, and more.

Presents applied theory and

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advanced simulation techniques for electric machines and drives This book combines the knowledge of experts from both academia and the software industry to present theories of multiphysics simulation by design for electrical machines, power electronics, and drives. The comprehensive design approach described within supports new applications required by technologies sustaining high drive efficiency. The highlighted framework considers the electric machine at the heart of the entire electric drive. The book also emphasizes the simulation by

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design concept—a concept that frames the entire highlighted design methodology, which is described and illustrated by various advanced simulation technologies. Multiphysics Simulation by Design for Electrical Machines, Power Electronics and Drives begins with the basics of electrical machine design and manufacturing tolerances. It also discusses fundamental aspects of the state of the art design process and includes examples from industrial practice. It explains FEM-based analysis techniques for electrical machine design—providing

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details on how it can be employed in ANSYS Maxwell software. In addition, the book covers advanced magnetic material modeling capabilities employed in numerical computation; thermal analysis; automated optimization for electric machines; and power electronics and drive systems. This valuable resource: Delivers the multi-physics know-how based on practical electric machine design methodologies Provides an extensive overview of electric machine design optimization and its integration with power electronics and drives Incorporates case studies

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from industrial practice and research and development projects Multiphysics Simulation by Design for Electrical Machines, Power Electronics and Drives is an incredibly helpful book for design engineers, application and system engineers, and technical professionals. It will also benefit graduate engineering students with a strong interest in electric machines and drives.

A "wiggler" is an insertion device used for spatially concentrating radiation for research purposes, and an "undulator" is a multi-period wiggler. Undulator

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and wiggler devices are inserted in a free straight section of the storage ring of the synchrotron. This book explores the radiation produced by these insertion devices, the engineering and ass

This practical guide provides a comprehensive survey of all relevant inductive sensor classes for industrial applications in a single volume, from automotive use to white goods, covering design, fabrication, implementation, principles and functionality as well as standards and EMC requirements. The book addresses professional

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engineers and technicians, but is also accessible to students who require a solid basic knowledge of inductive sensors. Each chapter begins with classic, traditional explanations and gradually moves on to state-of-the-art analog and digital solutions, including large-scale integrated systems-on-chip, software defined sensors SDS, digital signal synthesis, coils on silicon and active inductors. The book employs three modern analysis methods: analytic computation; popular graphical methods (phasor diagrams, phase plans, Smith charts, etc.) and computer assisted tools, like the

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electromagnetic field simulator, Maxwell, and the popular Spice simulator for electronic circuits. For traditional solutions, the chapters give overviews in tables with computation formulae (including empirical expressions). Numerical examples help the reader consolidate the theoretical knowledge gained. Concrete examples for currently available commercial parts are provided.

Soft-Switching Technology
for Three-phase Power
Electronics Converters
Discover foundational and
advanced topics in soft-

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switching technology, including ZVS three-phase conversion In Soft-Switching Technology for Three-phase Power Electronics Converters, an expert team of researchers delivers a comprehensive exploration of soft-switching three-phase converters for applications including renewable energy and distribution power systems, AC power sources, UPS, motor drives, battery chargers, and more. The authors begin with an introduction to the fundamentals of the technology, providing the basic knowledge necessary for readers to understand the following articles. The

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book goes on to discuss three-phase rectifiers and three-phase grid inverters. It offers prototypes and experiments of each type of technology. Finally, the authors describe the impact of silicon carbide devices on soft-switching three-phase converters, studying the improvement in efficiency and power density created via the introduction of silicon carbide devices. Throughout, the authors put a special focus on a family of zero-voltage switching (ZVS) three-phase converters and related pulse width modulation (PWM) schemes. The book also includes: A thorough introduction to

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soft-switching techniques, including the classification of soft-switching for three phase converter topologies, soft-switching types and a generic soft-switching pulse-width-modulation known as Edge-Aligned PWM A

comprehensive exploration of classical soft-switching three-phase converters, including the switching of power semiconductor devices and DC and AC side resonance Practical discussions of ZVS space vector modulation for three-phase converters, including the three-phase converter commutation process In-depth examinations of three-phase rectifiers with compound

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active clamping circuits
Perfect for researchers,
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engineers, and undergraduate
and graduate students
studying or working in power
electronics, Soft-Switching
Technology for Three-phase
Power Electronics Converters
is also a must-read resource
for research and development
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design and development of
power electronics.

A comprehensive text,
combining all important
concepts and topics of
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Machine Fundamentals with Numerical Simulation using MATLAB/Simulink provides readers with a basic understanding of all key concepts related to electrical machines (including working principles, equivalent circuit, and analysis). It elaborates the fundamentals and offers numerical problems for students to work through. Uniquely, this text includes simulation models of every type of machine described in the book, enabling students to design and analyse machines on their own. Unlike other books on the subject, this book meets all the needs of

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students in electrical machine courses. It balances analytical treatment, physical explanation, and hands-on examples and models with a range of difficulty levels. The authors present complex ideas in simple, easy-to-understand language, allowing students in all engineering disciplines to build a solid foundation in the principles of electrical machines. This book:

- Includes clear elaboration of fundamental concepts in the area of electrical machines, using simple language for optimal and enhanced learning
- Provides wide coverage of topics, aligning with the electrical

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machines syllabi of most international universities Contains extensive numerical problems and offers MATLAB/Simulink simulation models for the covered machine types Describes MATLAB/Simulink modelling procedure and introduces the modelling environment to novices Covers magnetic circuits, transformers, rotating machines, DC machines, electric vehicle motors, multiphase machine concept, winding design and details, finite element analysis, and more Electrical Machine Fundamentals with Numerical Simulation using MATLAB/Simulink is a well-

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balanced textbook perfect for undergraduate students in all engineering majors. Additionally, its comprehensive treatment of electrical machines makes it suitable as a reference for researchers in the field.

This book on hybrid electric vehicles brings out six chapters on some of the research activities through the wide range of current issues on hybrid electric vehicles. The first section deals with two interesting applications of HEVs, namely, urban buses and heavy duty working machines. The second one groups papers related to the optimization

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of the electricity flows in a hybrid electric vehicle, starting from the optimization of recharge in PHEVs through advance storage systems, new motor technologies, and integrated starter-alternator technologies. A comprehensive analysis of the technologies used in HEVs is beyond the aim of the book. However, the content of this volume can be useful to scientists and students to broaden their knowledge of technologies and application of hybrid electric vehicles.

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This book comprises the proceedings of the Conference and Exhibition on Non Destructive Evaluation, (NDE 2019). The contents of the book encompass a vast spectrum from Conventional to Advanced NDE including novel methods, instrumentation, sensors,

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procedures and data analytics as applied to all industry segments for quality control, periodic maintenance, life estimation, structural integrity and related areas. This book will be a useful reference for students, researchers and practitioners.

This book features research presented at the 1st International Conference on Artificial Intelligence and Applied Mathematics in Engineering, held on 20–22 April 2019 at Antalya, Manavgat (Turkey). In today's world, various engineering areas are

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essential components of technological innovations and effective real-world solutions for a better future. In this context, the book focuses on problems in engineering and discusses research using artificial intelligence and applied mathematics. Intended for scientists, experts, M.Sc. and Ph.D. students, postdocs and anyone interested in the subjects covered, the book can also be used as a reference resource for courses related to artificial intelligence and applied mathematics.

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