

Electrical Transients Allan Greenwood With Solution Problems

The present book addresses various power system planning issues for professionals as well as senior level and postgraduate students. Its emphasis is on long-term issues, although much of the ideas may be used for short and mid-term cases, with some modifications. Back-up materials are provided in twelve appendices of the book. The readers can use the numerous examples presented within the chapters and problems at the end of the chapters, to make sure that the materials are adequately followed up. Based on what Matlab provides as a powerful package for students and professional, some of the examples and the problems are solved in using M-files especially developed and attached for this purpose. This adds a unique feature to the book for in-depth understanding of the materials, sometimes, difficult to apprehend mathematically. Chapter 1 provides an introduction to Power System Planning (PSP) issues and basic principles. As most of PSP problems are modeled as optimization problems, optimization techniques are covered in some details in Chapter 2. Moreover, PSP decision makings are based on both technical and economic considerations, so economic principles are briefly reviewed in Chapter 3. As a basic requirement of PSP studies, the load has to be known. Therefore, load forecasting is presented in Chapter 4. Single bus Generation Expansion Planning (GEP) problem is described in Chapter 5. This study is performed using WASP-IV, developed by International Atomic Energy Agency. The study ignores the grid structure. A Multi-bus GEP problem is discussed in Chapter 6 in which the transmission effects are, somehow, accounted for. The results of single bus GEP is used as an input to this problem. SEP problem is fully presented in Chapter 7. Chapter 8 devotes to Network Expansion Planning (NEP) problem, in which the network is planned. The results of NEP, somehow, fixes the network structure. Some practical considerations and improvements such as multi-voltage cases are discussed in Chapter 9. As NEP study is typically based on some simplifying assumptions and Direct Current Load Flow (DCLF) analysis, detailed Reactive Power Planning (RPP) study is finally presented in Chapter 10, to guarantee acceptable ACLF performance during normal as well as contingency conditions. This, somehow, concludes the basic PSP problem. The changing environments due to power system restructuring dictate some uncertainties on PSP issues. It is shown in Chapter 11 that how these uncertainties can be accounted for. Although is intended to be a text book, PSP is a research oriented topic, too. That is why Chapter 12 is devoted to research trends in PSP. The chapters conclude with a comprehensive example in Chapter 13, showing the step-by-step solution of a practical case.

Uses market research and analysis to provide values for vintage or collectible instruments, including information on more than eighteen hundred brands accompanied by eleven hundred photographs.

" Fundamental Notions About Electrical Transients." The Laplace Transform Method of Solving Differential Equations." Simple Switching Transients." Damping." Abnormal Switching Transients." Transients in Three-Phase Circuits." Transients in Direct Current Circuits, Conversion Equipment and Static Var Controls." Electromagnetic Phenomena of Importance Under Transient Conditions." Traveling Waves and Other Transients on Transmission Lines." Principles of Transient Modeling of Power Systems and Components." Modeling Power Apparatus and the Behavior of Such Equipment Under Transient Conditions." Computer Aids to the Calculation of Electrical Transients." System and Component Parameter Values for Use in Transient Calculations and Means to Obtain Them in Measurement." Lightning." Insulation Coordination." Protection of Systems and Equipment Against Transient Overvoltages." Case Studies in Electrical Transients." Equipment for Measuring Transients." Measuring Techniques and Surge Testing." Appendices." Index.

A bestselling calculations handbook that offers electric power engineers and technicians essential, step-by-step procedures for solving a wide array of electric power problems. This edition introduces a complete electronic book on CD-ROM with over 100 live calculations--90% of the book's calculations. Updated to reflect the new National Electric Code advances in transformer and motors; and the new system design and operating procedures in the electric utility industry prompted by deregulation.

The principles of the First Edition--to teach students and engineers the fundamentals of electrical transients and equip them with the skills to recognize and solve transient problems in power networks and components--also guide this Second Edition. While the text continues to stress the physical aspects of the phenomena involved in these problems, it also broadens and updates the computational treatment of transients. Necessarily, two new chapters address the subject of modeling and models for most types of equipment are discussed. The adequacy of the models, their validation and the relationship between model and the physical entity it represents are also examined. There are now chapters devoted entirely to isolation coordination and protection, reflecting the revolution that metal oxide surge arresters have caused in the power industry. Features additional and more complete illustrative material--figures, diagrams and worked examples. An entirely new chapter of case studies demonstrates modeling and computational techniques as they have been applied by engineers to specific problems.

Both deregulation in the electrical supply industry and the creation of new electricity markets present electric utility companies with the challenge of becoming more efficient without compromising quality of service. Providing new solutions for this newly deregulated paradigm, Power Quality: VAR Compensation in Power Systems presents comprehensive coverage of power quality, harmonics, and static var compensators in one single volume. The book explains how to ensure that power quality is not affected by the harmonics

generated by power electronic equipment and explains how to reduce labor costs and increase reliability of supply by employing a single pole autoreclosing scheme. It also addresses how to analyze frequency response of current transformers and voltage transformers while measuring harmonics. Based on the authors' extensive experience in the electric supply industry, Power Quality enables engineers to meet the demands of increased loads, strengthen their transmission systems, and ensure reliable electric supply.

In A Clear And Systematic Manner, This Book Presents An Exhaustive Exposition Of The Various Dimensions Of Electrical Power Systems. Both Basic And Advanced Topics Have Been Thoroughly Explained And Illustrated Through Solved Examples. Salient Features * Fundamentals Of Power Systems, Line Constant Calculations And Performance Of Overhead Lines Have Been Discussed * Mechanical Design Of Lines, HvdC Lines, Corona, Insulators And Insulated Cables Have Been Explained * Voltage Control, Neutral Grounding And Transients In Power Systems Explained * Fault Calculation, Protective Relays Including Digital Relays And Circuit Breakers Discussed In That Order * Power Systems Synchronous Stability And Voltage Stability Explained * Insulation Coordination And Over Voltage Protection Explained * Modern Topics Like Load Flows, Economic Load Dispatch, Load Frequency Control And Compensation In Power System Nicely Developed And Explained Using Flow Charts Wherever Required * Zbus Formulation, Power Transformers And Synchronous Machines As Power System Elements Highlighted * Large Number Of Solved Examples, Practice Problems And Multiple Choice Questions Included. Answers To Problems And Multiple-Choice Questions Provided. With All These Features, This Is An Invaluable Textbook For Undergraduate Electrical Engineering Students Of Indian And Foreign Universities. Amie, Gate, All Competitive Examination Candidates And Practising Engineers Would Also Find This Book Very Useful. Reading for Storyness combines cognitive science with literary theory to present a compelling argument for the uniqueness of the short story.

This new edition covers a wide area from transients in power systems—including the basic theory, analytical calculations, EMTP simulations, computations by numerical electromagnetic analysis methods, and field test results—to electromagnetic disturbances in the field on EMC and control engineering. Not only does it show how a transient on a single-phase line can be explained from a physical viewpoint, but it then explains how it can be solved analytically by an electric circuit theory. Approximate formulas, which can be calculated by a pocket calculator, are presented so that a transient can be analytically evaluated by a simple hand calculation. Since a real power line is three-phase, this book includes a theory that deals with a multi-phase line for practical application. In addition, methods for tackling a real transient in a power system are introduced. This new edition contains three completely revised and updated chapters, as well as two new chapters on grounding and numerical methods.

After an overview of major scientific discoveries of the 18th and 19th centuries, which created electrical science as we know and understand it and led to its useful applications in energy conversion, transmission, manufacturing industry and communications, this Circuits and Systems History book fills a gap in published literature by providing a record of the many outstanding scientists, mathematicians and engineers who laid the foundations of Circuit

Theory and Filter Design from the mid-20th Century. Additionally, the book records the history of the IEEE Circuits and Systems Society from its origins as the small Circuit Theory Group of the Institute of Radio Engineers (IRE), which merged with the American Institute of Electrical Engineers (AIEE) to form IEEE in 1963, to the large and broad-coverage worldwide IEEE Society which it is today. Many authors from many countries contributed to the creation of this book, working to a very tight time-schedule. The result is a substantial contribution to their enthusiasm and expertise which it is hoped that readers will find both interesting and useful. It is sure that in such a book omissions will be found and in the space and time available, much valuable material had to be left out. It is hoped that this book will stimulate an interest in the marvellous heritage and contributions that have come from the many outstanding people who worked in the Circuits and Systems area.

The second edition of *Legal Aspects of Business: Texts, Jurisprudence, and Cases* is a comprehensive textbook designed especially for postgraduate students of business management. It presents a complete, all inclusive jurisprudence and supplements the concepts with numerous cases, exercises, and profiles of legal luminaries. The book is divided into six parts. Part I introduces the reader to Business Jurisprudence. As the contract law is foundation to all business laws, Part II, Commercial Jurisprudence, on Mercantile Law discusses the Indian Contract Act, 1872 and its features at length. The Sale of Goods Act, 1930, the Negotiable Instrument Act, 1881, The Indian Partnership Act, 1932, the Companies Act, 2013, and the Competition Act, 2002 are also covered in depth. Part III, Financial Jurisprudence, covers the laws related to finance and banking at length. Part IV, Labour and Industrial Jurisprudence, covers the laws related to wages, workers' social security, and industrial relations. Part V, Aspects of New Economy and Jurisprudence, throws light on laws related to information and communication, intellectual property rights, and environment protection. Part VI, Judicial and Social Jurisprudence, is devoted to business and criminal liability and basic rights and business. The book also offers valuable insights to practitioners to arrive at legally sound decisions in various business situations.

This book reflects fundamentals to the power system and equips them to recognize and solve the transient problems in power networks and their components. Practicality has been a paramount concern in its preparation. Many pioneers of electrical engineering explored the transient behaviors of electric circuits. This book effectively helpful for the graduate, postgraduate studies and researches on power system transients and emergence & re-emergence the problems in the power system operations and control for new applications with new equipment. I have attempted to set out the fundamental ideas at the beginning of the book and made a consistent effort to show thereafter how one peels away the superficial differences in practical transient studies by referring to various books, researches, and physical industrial visits.

About the Book: *Electrical power system together with Generation, Distribution and utilization of Electrical Energy* by the same author cover almost six to seven courses offered by various universities under Electrical and Electronics Engineering curriculum. Also, this combination has proved highly successful for writing competitive examinations viz. UPSC, NTPC, National Power Grid, NHPC, etc.

Every now and then, a good book comes along and quite rightfully makes itself a distinguished place among the existing books of the electric power engineering literature. This book by Professor Arie Shenkman is one of them. Today, there are many excellent textbooks dealing with topics in power systems. Some of them are considered to be classics. However, many of them do not particularly address, nor concentrate on, topics dealing with transient analysis of electrical power systems. Many of the fundamental facts concerning the transient behavior of electric circuits were well explored by Steinmetz and other early pioneers of electrical power engineering. Among others, *Electrical Transients in Power Systems* by Allan Greenwood is

worth mentioning. Even though basic knowledge of transients may not have advanced in recent years at the same rate as before, there has been a tremendous proliferation in the techniques used to study transients.

The application of computers to the study of transient phenomena has increased both the knowledge as well as the accuracy of calculations. Furthermore, the importance of transients in power systems is receiving more and more attention in recent years as a result of various blackouts, brownouts, and recent collapses of some large power systems in the United States, and other parts of the world. As electric power consumption grows exponentially due to increasing population, modernization, and industrialization of the so-called third world, this topic will be even more important in the future than it is at the present time.

Advanced Engineering Mathematics, 10th Edition is known for its comprehensive coverage, careful and correct mathematics, outstanding exercises, and self-contained subject matter parts for maximum flexibility. The new edition continues with the tradition of providing instructors and students with a comprehensive and up-to-date resource for teaching and learning engineering mathematics, that is, applied mathematics for engineers and physicists, mathematicians and computer scientists, as well as members of other disciplines.

The Fall of a Great American City is the story of what is happening today in New York City and in many other cities across America. It is about how the crisis of affluence is now driving out everything we love most about cities: small shops, decent restaurants, public space, street life, affordable apartments, responsive government, beauty, idiosyncrasy, each other. This is the story of how we came to lose so much—how the places we love most were turned over to land bankers, billionaires, the worst people in the world, and criminal landlords—and how we can - and must - begin to take them back. Co-published with Harper's Magazine, where an earlier version of this essay was originally published in 2018. The landlords are killing the town. As New York City approaches the third decade of the twenty-first century, it is in imminent danger of becoming something it has never been before: unremarkable. By unremarkable I don't just mean periodic, slump-in-the-art-world, all-the-bands-suck, cinema-is-dead boring. I mean flatlining. No longer a significant cultural entity but a blank white screen of mere existence. I mean The-World's-Largest-Gated-Community-with-a-few-cupcake-shops. For the first-time in our history, creative-young-people-will-no-longer want-to-come-here boring. Even, New-York-is-over boring. Or worse, New York is like everywhere else. Unremarkable. This is not some new phenomenon, but a cancer that's been metastasizing on the city for decades now. Even worse, it's not something that anyone wants, except the landlords, and not even all of them. What's happening to New York now—what's already happened to most of Manhattan, its core, and what is happening in every American city of means, Boston, Washington, San Francisco, Seattle, you name it—is something that almost nobody wants, but everybody gets. As such, the current urban crisis exemplifies our wider crisis: an America where we believe that we no longer have any ability to control the systems we live under.

Provides students with an understanding of the modeling and practice in power system stability analysis and control design, as well as the computational tools used by commercial vendors. Bringing together wind, FACTS, HVDC, and several other modern elements, this book gives readers everything they need to know about power systems. It makes learning complex power system concepts, models, and dynamics simpler and more efficient while providing modern viewpoints of power system analysis. Power System Modeling, Computation, and Control provides students with a new and detailed analysis of voltage stability; a simple example illustrating the BCU method of transient stability analysis; and one of only a few derivations of the transient synchronous machine model. It offers a discussion on reactive power consumption of induction motors during start-up to illustrate the low-voltage phenomenon observed in urban load centers. Damping controller designs using power system stabilizer, HVDC systems, static var compensator, and thyristor-controlled series compensation are also

examined. In addition, there are chapters covering flexible AC transmission Systems (FACTS)—including both thyristor and voltage-sourced converter technology—and wind turbine generation and modeling. Simplifies the learning of complex power system concepts, models, and dynamics Provides chapters on power flow solution, voltage stability, simulation methods, transient stability, small signal stability, synchronous machine models (steady-state and dynamic models), excitation systems, and power system stabilizer design Includes advanced analysis of voltage stability, voltage recovery during motor starts, FACTS and their operation, damping control design using various control equipment, wind turbine models, and control Contains numerous examples, tables, figures of block diagrams, MATLAB plots, and problems involving real systems Written by experienced educators whose previous books and papers are used extensively by the international scientific community Power System Modeling, Computation, and Control is an ideal textbook for graduate students of the subject, as well as for power system engineers and control design professionals.

The basic theory, principle of operation and characteristics of transformers, three-phase induction motors, single-phase induction motors, synchronous machines and dc machines are dealt with in Appendices to provide the background for the design of these machines.

From the more basic concepts to the most advanced ones where long and laborious simulation models are required, Electromagnetic Transients in Power Cables provides a thorough insight into the study of electromagnetic transients and underground power cables. Explanations and demonstrations of different electromagnetic transient phenomena are provided, from simple lumped-parameter circuits to complex cable-based high voltage networks, as well as instructions on how to model the cables. Supported throughout by illustrations, circuit diagrams and simulation results, each chapter contains exercises, solutions and examples in order to develop a practical understanding of the topics. Harmonic analysis of cable-based networks and instructions on how to accurately model a cable-based network are also covered, including several “tricks” and workarounds to help less experienced engineers perform simulations and analyses more efficiently. Electromagnetic Transients in Power Cables is an invaluable resource for students and engineers new to the field, but also as a point of reference for more experienced industry professionals.

Provides a comprehensive guide to FACTS, covering all the major aspects in research and development of FACTS technology.

Title: The Vacuum Interrupter: Theory, Design, and Application Shelving guide: Electrical Engineering Dr. Paul Slade draws from his nearly six decades of active experience to develop this second edition of The Vacuum Interrupter: Theory, Design, and Application. This book begins by discussing the design requirements for high voltage vacuum interrupters and then the contact requirements to interrupt the vacuum arc. It then continues by describing the various applications in which the vacuum interrupter is generally utilized. Part 1 of this book begins with a detailed review of the vacuum breakdown process. It continues by covering the steps necessary for the design and the manufacture of a successful vacuum interrupter. The vacuum arc is then discussed, including how it is affected as a function of current. An overview of the development and use of practical contact materials, along with their advantages and disadvantages, follows. Contact designs that are introduced to control the high current vacuum arc are also analyzed. Part 2, on application, begins with a discussion of the arc interruption process for low current and high current vacuum arcs. It examines the voltage escalation phenomenon that can occur when interrupting inductive circuits. The occurrence of contact welding for closed contacts subjected to the passage of high currents, and for contacts when closing on high currents, is explored. The general requirements for the successful manufacture and testing of vacuum circuit breakers is then presented. The general application of vacuum interrupters to switch load currents, especially when applied to capacitor circuits, is also given. The interruption of high short circuit currents is presented along with the expected performance

of the two major contact designs. Owing to the ever-increasing need for environmentally friendly circuit protection devices, the development and application of the vacuum interrupter will only increase in the future. At present the vacuum circuit breaker is the technology of choice for distribution circuits (5kV to 40.5kV). It is increasingly being applied to transmission circuits (72.5kV to 242kV). In the future, its application for protecting high voltage DC networks is assured. Audience This is a practical source book for engineers and scientists interested in studying the development and application of the vacuum interrupter Research scientists in industry and universities Graduate students beginning their study of vacuum interrupter phenomena Design engineers applying vacuum interrupters in vacuum switches, vacuum contactors, vacuum circuit breakers, and vacuum contactors It provides a unique and comprehensive review of all aspects of vacuum interrupter technology for those new to the subject and for those who wish to obtain a deeper understanding of its science and application Scientists and engineers, who are beginning their research into vacuum breakdown and aspects of the vacuum arc, will find the extensive bibliography and phenomenological descriptions to be a useful introduction

For college students and practicing engineers.

Suitable for undergraduate and graduate students, this book discusses constants of overhead transmission lines and their performance, and gives a treatment of design of electrical and mechanical transmission lines. This book includes chapters on power system operation and analysis, which are used to illustrate the problems in designing.

Vacuum switches now dominate the medium-voltage sector (below 30 kV) for all power switching functions. Allan Greenwood is a world authority in this field; in this book he shows how vacuum arcs and current interruption in vacuum are different from gaseous arcs and interruption in gas circuit breakers, and leads the reader to understand these differences - thereby enabling successful design, construction and use of vacuum switchgear. This comprehensive treatment (including an introductory historical perspective) makes the book useful for users and manufacturers as well as designers.

Understanding transient phenomena in electric power systems and the harmful impact of resulting disturbances is an important aspect of power system operation and resilience.

Bridging the gap from theory to practice, this guide introduces the fundamentals of transient phenomena affecting electric power systems using the numerical analysis tools, Alternative Transients Program- Electromagnetic Transients Program (ATP-EMTP) and ATP-DRAW. This technology is widely-applied to recognize and solve transient problems in power networks and components giving readers a highly practical and relevant perspective and the skills to analyse new transient phenomena encountered in the field. Key features: Introduces novice engineers to transient phenomena using commonplace tools and models as well as background theory to link theory to practice. Develops analysis skills using the ATP-EMTP program, which is widely used in the electric power industry. Comprehensive coverage of recent developments such as HVDC power electronics with several case studies and their practical results. Provides extensive practical examples with over 150 data files for analysing transient phenomena and real life practical examples via a companion website. Written by experts with deep experience in research, teaching and industry, this text defines transient phenomena in an electric power system and introduces a professional transient analysis tool with real examples to novice engineers in the electric power system industry. It also offers instruction for graduates studying all aspects of power systems.

In two editions spanning more than a decade, The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has expanded into a set of six books carefully focused on a specialized area or field of study. Each book represents a concise yet definitive collection of key concepts, models, and equations in its respective

domain, thoughtfully gathered for convenient access. Systems, Controls, Embedded Systems, Energy, and Machines explores in detail the fields of energy devices, machines, and systems as well as control systems. It provides all of the fundamental concepts needed for thorough, in-depth understanding of each area and devotes special attention to the emerging area of embedded systems. Each article includes defining terms, references, and sources of further information. Encompassing the work of the world's foremost experts in their respective specialties, Systems, Controls, Embedded Systems, Energy, and Machines features the latest developments, the broadest scope of coverage, and new material on human-computer interaction.

The new edition of this thoroughly considered textbook provides a reliable, accessible and comprehensive guide for students of photovoltaic applications and renewable energy engineering. Written by a group of award-winning authors it is brimming with information and is carefully designed to meet the needs of its readers. Along with exercises and references at the end of each chapter, it features a set of detailed technical appendices that provide essential equations, data sources and standards. The new edition has been fully updated with the latest information on photovoltaic cells, modules, applications and policy. Starting from basics with 'The Characteristics of Sunlight' the reader is guided step-by-step through semiconductors and p-n junctions; the behaviour of solar cells; cell properties and design; and PV cell interconnection and module fabrication. The book covers stand-alone photovoltaic systems; specific purpose photovoltaic systems; remote area power supply systems; grid-connected photovoltaic systems and water pumping. Applied Photovoltaics is highly illustrated and very accessible, providing the reader with all the information needed to start working with photovoltaics.

Covering the fundamentals of electrical transients, this book will equip readers with the skills to recognise and solve transient problems in power networks and components. Starting with the basics of transient electrical circuit theory, and moving on to discuss the effects of power transience in all types of power equipment, van der Sluis provides new insight into this important field. Recent advances in measurement techniques, computer modelling and switchgear development are given comprehensive coverage for the first time. An electromagnetic transients calculation program is included and will prove valuable to both students and engineers in the field.

This newly revised and updated reference presents sensible approaches to the design, selection, and usage of high-voltage circuit breakers-highlighting compliance issues concerning new and aging equipment to the evolving standards set forth by the American National Standards Institute and the International Electrotechnical Commission. This edition features the latest advances in mechanical and dielectric design and application from a simplified qualitative perspective. High Voltage Circuit Breakers: Design and Applications features new material on contact resistance, insulating film coatings, and fretting; temperature at the point of contact; short-time heating of copper; erosion and electromagnetic forces on contacts; closing speed and circuit breaker requirements; "weld" break and contact bounce; factors influencing dielectric strength; air, SF₆, vacuum, and solid insulation; and dielectric loss and partial discharges, and includes updated chapters on capacitance switching; switching series and shunt reactors; temporary overvoltages; and the benefits of condition monitoring.

High Voltage Engineering Has Been Written For The Undergraduate Students In

Electrical Engineering Of Indian And Foreign Universities As Well As The Practising Engineers. It Deals In Mechanism Of Breakdown Of Insulating Materials, Generation And Measurement Of High A.C., D.C., Impulse Voltages And Currents. High Voltage Testing Of Some Of The Electrical Equipments E.G. Insulators, Cables, Transformers As Per Standard Specifications Has Been Explained. Various Methods Of Non Destructive Testing Which Yield Information Regarding Life Expectancy And The Long Term Stability Or Otherwise Of The Insulating Materials Have Been Discussed. The Book Takes A View Of Various Types Of Transients In Power System And Suggests Classical And More Modern Statistical Methods Of Co-Ordinating The Insulation Requirements Of The System. A Suitable Number Of Problems Have Been Solved To Help Understand The Theory. At The End, A Large Number Of Multiple Choice Questions Have Been Added To Help The Students To Test Themselves. A Few Photoplates Have Been Added At Suitable Locations In The Book To Give A Physical Feel Of Various Equipments In A Well Equipped High Voltage Laboratory.

Detect and Mitigate Transients in Electrical Systems This practical guide explains how to identify the origin of disturbances in electrical systems and analyze them for effective mitigation and control. Transients in Electrical Systems considers all transient frequencies, ranging from 0.1 Hz to 50 MHz, and discusses transmission line and cable modeling as well as frequency dependent behavior. Results of EMTP simulations, solved examples, and detailed equations are included in this comprehensive resource. Transients in Electrical Systems covers: Transients in lumped circuits Control systems Lightning strokes, shielding, and backflashovers Transients of shunt capacitor banks Switching transients and temporary overvoltages Current interruption in AC circuits Symmetrical and unsymmetrical short-circuit currents Transient behavior of synchronous generators, induction and synchronous motors, and transformers Power electronic equipment Flicker, bus, transfer, and torsional vibrations Insulation coordination Gas insulated substations Transients in low-voltage and grounding systems Surge arresters DC systems, short-circuits, distributions, and HVDC Smart grids and wind power generation

Electrical Transients in Power Systems Wiley-Interscience

This book is the totally revised edition of Canon of Judo. It is said that the original book played a big role in founding the International Judo Association and in helping Judo become an Olympic sport in 1964. Kyuzo Mifune (1883-1965) began Judo as a child, and in 1920 was awarded the highest possible rank of 10th dan - the only man ever to reach this height. Called the 'god of judo', he was so famous that '10th-Dan' replaced his name! Legend has it that in his sixty years of practice he never lost a match and was never thrown. This book is a totally revised edition. The original'

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