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Recent studies have shown that avascular cartilage templates derived from human mesenchymal stem cell (hMSC) aggregates are capable of progressing through endochondral ossification (25, 26, 29, 34-37) ...

~~Combinatorial morphogenetic and mechanical~~

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~~cues to mimic bone development for defect repair~~

1 Department of Orthopaedic Surgery, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA 19104, USA. 2 Department of Aerospace and Mechanical Engineering, University of Notre ...

~~Recapitulating bone development through engineered mesenchymal condensations and mechanical cues for tissue regeneration~~
Ali Yazdizadeh*, Zachary Patterson, and Bilal Farooq. Ensemble convolutional neural networks for mode inference in smartphone travel survey. IEEE Transactions on Intelligent Transportation ... 77, pp.

~~Zachary Patterson, PhD~~

Description: up to 36 kV up to 31.5 kA up to 2500 A Type-tested, LSC2B-PM type IAC switchgear according to IEC 62271-200 Air as insulating medium is always available Evidence of the making and ...

~~Power Transformer Switchgear~~

2013 for biomarkers and 2015 for genetics. The search strategy was developed in conjunction with an expert medical librarian, who also conducted an independent peer review of the strategy. Table 1 ...

~~Role of advanced neuroimaging, fluid biomarkers and genetic testing in the assessment of sport related concussion: a~~

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~~systematic review~~

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~~High Power Switchgear~~

We included in our analysis adult patients admitted to the intensive care unit (ICU) over a 4-year period (2015 to 2018) who received mechanical ventilation for greater than 24 hours and who had a ...

~~Lung and gut microbiota are altered by hyperoxia and contribute to oxygen-induced lung injury in mice~~

My research focuses on extending operations research methodologies to address practical problems in supply chain management. Teaching includes courses in operations research, supply chain management, ...

~~R. John Milne~~

Ali Yazdizadeh*, Zachary Patterson, and Bilal Farooq.Ensemble convolutional neural networks for mode inference in smartphone travel survey.IEEE Transactions on IntelligentTransportation ... 77, pp.

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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

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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

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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.

This book offers a vision of the future of electricity supply systems and CIGRE's views on the know-how that will be needed to manage the transition toward them. A variety of factors are driving a transition of electricity supply systems to new supply models, in particular the increasing use of renewable sources, environmental factors and developments in ICT technologies. These factors suggest that there are two possible models for power network development, and that those models are not necessarily exclusive: 1. An increasing importance of large networks for bulk transmission capable of interconnecting load regions and large centralized renewable generation resources, including offshore and of providing more interconnections between the various countries and energy markets. 2. An emergence of clusters of small, largely self-contained distribution networks, which include decentralized local generation, energy storage and active customer participation,

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intelligently managed so that they operate as active networks providing local active and reactive support. The electricity supply systems of the future will likely include a combination of the above two models, since additional bulk connections and active distribution networks are needed in order to reach ambitious environmental, economic and security-reliability targets. This concise yet comprehensive reference resource on technological developments for future electrical systems has been written and reviewed by experts and the Chairs of the sixteen Study Committees that form the Technical Council of CIGRE.

Switching in Electrical Transmission and Distribution Systems presents the issues and technological solutions associated with switching in power systems, from medium to ultra-high voltage. The book systematically discusses the electrical aspects of switching, details the way load and fault currents are interrupted, the impact of fault currents, and compares switching equipment in particular circuit-breakers. The authors also explain all examples of practical switching phenomena by examining real measurements from switching tests. Other highlights include: up to date commentary on new developments in transmission and distribution technology such as ultra-high voltage systems, vacuum switchgear for high-voltage, generator circuit-breakers, distributed generation, DC-interruption,

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aspects of cable systems, disconnectors, switching, very fast transients, and circuit-breaker reliability studies. Key features: Summarises the issues and technological solutions associated with the switching of currents in transmission and distribution systems. Introduces and explains recent developments such as vacuum switchgear for transmission systems, SF6 environmental consequences and alternatives, and circuit-breaker testing. Provides practical guidance on how to deal with unacceptable switching transients. Details the worldwide IEC (International Electrotechnical Commission) standards on switching equipment, illustrating current circuit-breaker applications. Features many figures and tables originating from full-power tests and established training courses, or from measurements in real networks. Focuses on practical and application issues relevant to practicing engineers. Essential reading for electrical engineers, utility engineers, power system application engineers, consultants and power system asset managers, postgraduates and final year power system undergraduates.

1 Switching phenomena in SF6 gas 2 SF6 alternative gases for switching applications 3 Switching phenomena in vacuum 4 Switching phenomena in air 5 DC switching technology 6 Semi conductor switching technology 7 Fault current limiting technology 8 Fundamental physics and

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electrical insulation in switchgear

Comprehensive reference covering all aspects of gas insulated substations including basic principles, technology, use & application, design, specification, testing and ownership issues This book provides an overview on the particular development steps of gas insulated high-voltage switchgear, and is based on the information given with the editor's tutorial. The theory is kept low only as much as it is needed to understand gas insulated technology, with the main focus of the book being on delivering practical application knowledge. It discusses some introductory and advanced aspects in the meaning of applications. The start of the book presents the theory of Gas Insulated Technology, and outlines reliability, design, safety, grounding and bonding, and factors for choosing GIS. The third chapter presents the technology, covering the following in detail: manufacturing, specification, instrument transformers, Gas Insulated Bus, and the assembly process. Next, the book goes into control and monitoring, which covers local control cabinet, bay controller, control schemes, and digital communication. Testing is explained in the middle of the book before installation and energization. Importantly, operation and maintenance is discussed. This chapter includes information on repair, extensions, retrofit or upgrade, and overloading. Finally applications are covered

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along with concepts of layout, typical layouts, mixed technology substations, and then other topics such as life cycle assessment, environmental impact, and project management. A one-stop, complete reference text on gas insulated substations (GIS), large-capacity and long-distance electricity transmission, which are of increasing importance in the power industry today Details advanced and basic material, accessible for both existing GIS users and those planning to adopt the technology Discusses both the practical and theoretical aspects of GIS Written by acknowledged GIS experts who have been involved in the development of the technology from the start

This CIGRE Green Book provides the entire know-how about switches in a high voltage system. The switching equipment includes circuit breakers, vacuum interrupters, disconnecting switches, and earthing switches used in AC & DC transmission and distribution systems. The Green book describes different switching equipments and their roles in the power systems. It explains the fundamental switching behaviors in power systems targeted for practitioners and students and joining electrical industries. The Green book also covers fundamental specific subjects including DC circuit breakers, controlled switching, fault current limiting devices and future technologies. Like all Green books, this book covers the cumulative understanding

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of numerous experts in the CIGRE study committee. It offers the approved and outstanding practical knowledge of CIGRE Study committee A3 and was collected by Dr. Hiroki Ito.

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