

Book Electrical Power System Analysis By Sivanagaraju Pdf

Electrical Power System Analysis Visual Analytics Using Tableau Computational Intelligence in Communications and Business Analytics IoT and Analytics for Sensor Networks Business Intelligence, Computational Mathematics, and Data Analytics Soft Computing Applications in Modern Power and Energy Systems Recent Advances in Power Systems The Indian Journal of Agricultural Economics Fundamentals of Electric Power System Next-Generation Green Energy Technologies for Sustainable Development ICT with Intelligent Applications Handbook of Wind Power Systems The Asian Economic Review Accounting Costing and Strategies in Paddy Cultivation Water and Energy International Control Systems Engineering Indian National Bibliography Indian Science Abstracts Analysis and Design of Discontinuous Conduction Mode AC-DC Power Factor Correction Converters S. Sivanagaraju Neha Singh Rajput Jyoti Prakash Singh Padmalaya Nayak V. B. Gupta Krishna Murari Om Hari Gupta Dr. Sandeep Sharma Surender Reddy Salkuti Jyoti Choudrie Panos M. Pardalos Hasri Mustafa S. Sivanagaraju B. S. Kesavan Sivanagaraju Gangavarapu

Electrical Power System Analysis Visual Analytics Using Tableau Computational Intelligence in Communications and Business Analytics IoT and Analytics for Sensor Networks Business Intelligence, Computational Mathematics, and Data Analytics Soft Computing Applications in Modern Power and Energy Systems Recent Advances in Power Systems The Indian Journal of Agricultural Economics Fundamentals of Electric Power System Next-Generation Green Energy Technologies for Sustainable Development ICT with Intelligent Applications Handbook of Wind Power Systems The Asian Economic Review Accounting Costing and Strategies in Paddy Cultivation Water and Energy International Control Systems Engineering Indian National Bibliography Indian Science Abstracts Analysis and Design of Discontinuous Conduction Mode AC-DC Power Factor Correction Converters S. Sivanagaraju Neha Singh Rajput Jyoti Prakash Singh Padmalaya Nayak V. B. Gupta Krishna Murari Om Hari Gupta Dr. Sandeep Sharma Surender Reddy Salkuti Jyoti Choudrie Panos M. Pardalos Hasri Mustafa S. Sivanagaraju B. S. Kesavan Sivanagaraju Gangavarapu

description tableau is one of the leading business intelligence and data visualization tools that fulfill almost all the requirements for getting insights from huge data and solving complex business queries using simple and complex visualizations this book covers all the features supported by tableau from basics to advanced master data storytelling with tableau by

learning to connect clean and analyze data from various sources this book covers essential chart types like bar line and pie charts while introducing advanced features like filters lod expressions and dual axis charts create interactive dashboards by combining visualizations adding controls and customizing designs to engage your audience use storytelling techniques to present insights effectively with advanced visualizations like combo and gantt charts this guide equips you with the skills to communicate data clearly and make informed data driven decisions this book begins with very basic information that even a beginner can understand gradually the book covers intermediate and advanced features of tableau so it can help readers of all levels become experts in tableau key features covers data visualization basics to advanced techniques providing a complete understanding offers practical examples and exercises to reinforce learning and gain hands on experience explains complex ideas clearly making them accessible for all skill levels what you will learn understand different types of data sources and how to connect them learn techniques for cleaning and preparing data for visualization perform calculations aggregations and level of detail lod expressions create both simple and advanced visualizations to present data design visually engaging dashboards and storyboards to answer business questions effectively who this book is for this book is for students and professionals who want to learn and have a rewarding career in data visualization using tableau it is also for anyone who wants to become a data analyst tableau developer business analyst etc table of contents 1 introduction 2 tableau as a visualization tool 3 connecting data 4 cleaning the data 5 exploring tableau screen 6 working with live connection and extracts 7 relationships and joins 8 playing with charts 9 advanced charts 10 sets filters sorting and groups 11 some advanced features 12 preparing the dashboard 13 level of details 14 preparing the storyboard 15 customizing the view 16 closing comments appendix

this three volume set ccis 2366 2368 constitutes the refereed proceedings of the 6th international conference on computational intelligence in communications and business analytics cicba 2024 held in patna india during january 23 25 2024 the 82 full papers presented in this volume were carefully reviewed and selected from 249 submissions together these papers showcase cutting edge research in the fields of computational intelligence and business analytics covering a broad range of topics

this book includes high quality research papers presented at the 1st international conference on wireless sensor networks ubiquitous computing and applications icwsnuca 2021 which is held at gokaraju rangaraju institute of engineering and technology hyderabad india during 26 27 february 2021 this volume focuses on the applications use cases architectures deployments and recent advances of wireless sensor networks as well as ubiquitous computing different research topics are illustrated in this book like wireless sensor networks for the internet of things iot applications for ehealth smart cities architectures for wsns and iot wsns hardware and new devices low power wireless technologies wireless ad hoc sensor networks

routing and data transfer in wsns multicast communication in wsns security management in wsns and in iot systems and power consumption optimization in wsns

this book constitutes the proceedings of the first international conference on business intelligence computational mathematics and data analytics ibcd 2024 held in indore india during august 18 19 2024 the conference focus on applied intelligence across data science mathematics healthcare cybersecurity and business analytics and will serve as a driving force for transforming theoretical breakthroughs into practical real world solutions with meaningful societal impact

this book provides rigorous discussions case studies and recent developments in soft computing and its application in power systems enabled with power electronics based equipment biomedical engineering and image processing the readers would be benefitted from enhancing their knowledge and skills in the domain areas this book also helps the readers in developing new and innovative ideas

this book contains selected proceedings of eprec 2021 with a focus on power systems the book includes original research and case studies that present recent developments in power systems principally renewable energy conversion systems distributed generations microgrids smart grid hvdc facts power quality power system protection etc the book will be a valuable reference guide for beginners researchers and professionals interested in advancements in power systems

vols include proceedings of the conference of the indian society of agricultural economics

electric power systems are at the heart of modern society powering homes businesses and industries around the globe as such a firm grasp of their fundamental principles is essential for anyone involved in the design operation or management of electrical infrastructure throughout this book emphasis is placed not only on theoretical foundations but also on practical insights gleaned from real world engineering practices case studies examples and illustrations are utilized to illustrate key concepts and demonstrate their relevance in solving real world problems

this book aims to find solutions to various issues starting from integration and control of next generation grids hybrid power generation electric vehicles energy storage forecasting wide area monitoring electrical markets communication coordinated control and protection empowering the customer with tools for optimizing their energy consumption and security for the effective reliable and risk free operation of the power networks there is a requirement to conduct a comprehensive analysis of the integration of a large number of evs and their impact on various sectors of society this book also discusses the applications of advanced power

electronics intelligent control techniques effective energy management ev charging networks the impact of ev load on distribution systems economic analysis and power markets advanced flexibility strategies for smart grids recent advances in energy storage and research directions emerging fields such as artificial intelligence internet of things and machine learning several developments in green energy technologies have gained momentum in recent years this book considers the nuances of new paradigms including green energy technologies smart grid components the impact of energy storage electric vehicles and distributed energy resources in the power networks it provides illustrative and comprehensive strategies to furnish pragmatic solutions to multifaceted challenges ushering in a new era of heightened efficiency unwavering reliability and enhanced overall performance in modern smart and hybrid energy systems

this book gathers papers addressing state of the art research in all areas of information and communication technologies and their applications in intelligent computing cloud storage data mining and software analysis it presents the outcomes of the seventh international conference on information and communication technology for intelligent systems ictis 2023 held in ahmedabad india the book is divided into two volumes it discusses the fundamentals of various data analysis techniques and algorithms making it a valuable resource for researchers and practitioners alike

wind power is currently considered as the fastest growing energy resource in the world technological advances and government subsidies have contributed in the rapid rise of wind power systems the handbook on wind power systems provides an overview on several aspects of wind power systems and is divided into four sections optimization problems in wind power generation grid integration of wind power systems modeling control and maintenance of wind facilities and innovative wind energy generation the chapters are contributed by experts working on different aspects of wind energy generation and conversion

mathematical modelling of electrical and mechanical systems explained thoroughly detailed discussion of sensitivity to parameter variation different control systems components and state variable analysis in depth treatment of stability analysis in both time domain as well as frequency domain each concept is explained with ample solved numerical problems about the book the book control systems engineering is intended for undergraduate students it is helpful for those interested in learning about the basic principles and techniques of control systems a number of solved and exercise problems descriptive questions and short questions and answers appended to the book make it an ideal textbook

in more electric aircrafts meas the synchronous generators are connected directly to the turbo engine to develop constant voltage variable frequency cvvf ac supply bus in addition the mea

has adopted high voltage dc bus in its power system to cater the various categories of load used by aircraft therefore the mea requires ac dc power converters to convert cvvf ac to constant dc existing diode bridge based passive multi pulse ac dc converters are suffering from heavy and bulky low frequency 350 hz transformers poor input power quality low efficiency and unregulated output voltage to overcome these drawbacks this thesis work proposes and studies several new active switched mode ac dc converters isolated and non isolated strictly satisfying the enhanced requirements of the aircraft application the vital constituent in active ac dc power conversion is the power factor correction pfc understanding the certain limitations of the continuous conduction mode ccm operation for cvvf ac supply the proposed converters are designed to operate in discontinuous conduction mode dcm to make use of its obvious benefits such as inherent pfc reduced number of sensors simple control inherent zero current turn on of the switches and inherent zero diode reverse recovery losses a single sensor based simple voltage control loop is only used to obtain the tightly regulated output voltage which makes it economical and improves the system reliability and robustness to high frequency noise at first a three phase modular single stage isolated cuk converter is proposed on considering cuk converter merits such as inrush current limitation no input filter requirement and easy implementation of high frequency transformer isolation the phase modular converters are easy to implement can be paralleled easily for high power design operational with two phase loss and provide quick repair and maintenance however they employ more number of components and suffering from higher conduction losses to overcome these issues a new direct three phase non isolated cuk derived pfc converter with reduced number of components and conduction losses is proposed with this new topology the conduction losses are significantly reduced and efficiency is improved by 4 compared to the previously analyzed phase modular converter however this converter needs two dc link capacitors for its operation at dc output that added extra capacitive losses further to reduce the capacitive losses a new direct three phase non isolated buck boost derived pfc converter with one dc link capacitor and reduced capacitive losses along with retention of all the benefits of cuk derived pfc converter is proposed for high power operations interleaved topology of the three phase buck boost derived pfc converter with reduced filter size reduced losses and improved efficiency is proposed finally an isolated topology of the three phase buck boost derived pfc converter with a novel clamping circuit to capture and utilize the transformers leakage inductance energy in order to improve the converter efficiency is proposed the converters steady state operation dcm condition and design equations are reported in detail the small signal models for all the proposed topologies using average current injected equivalent circuit approach are developed and a detailed closed loop controller design is illustrated the simulation results from psim 11.1 software and the experimental results from proof of concept laboratory hardware prototypes are provided in order to validate the report analysis design and performance

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