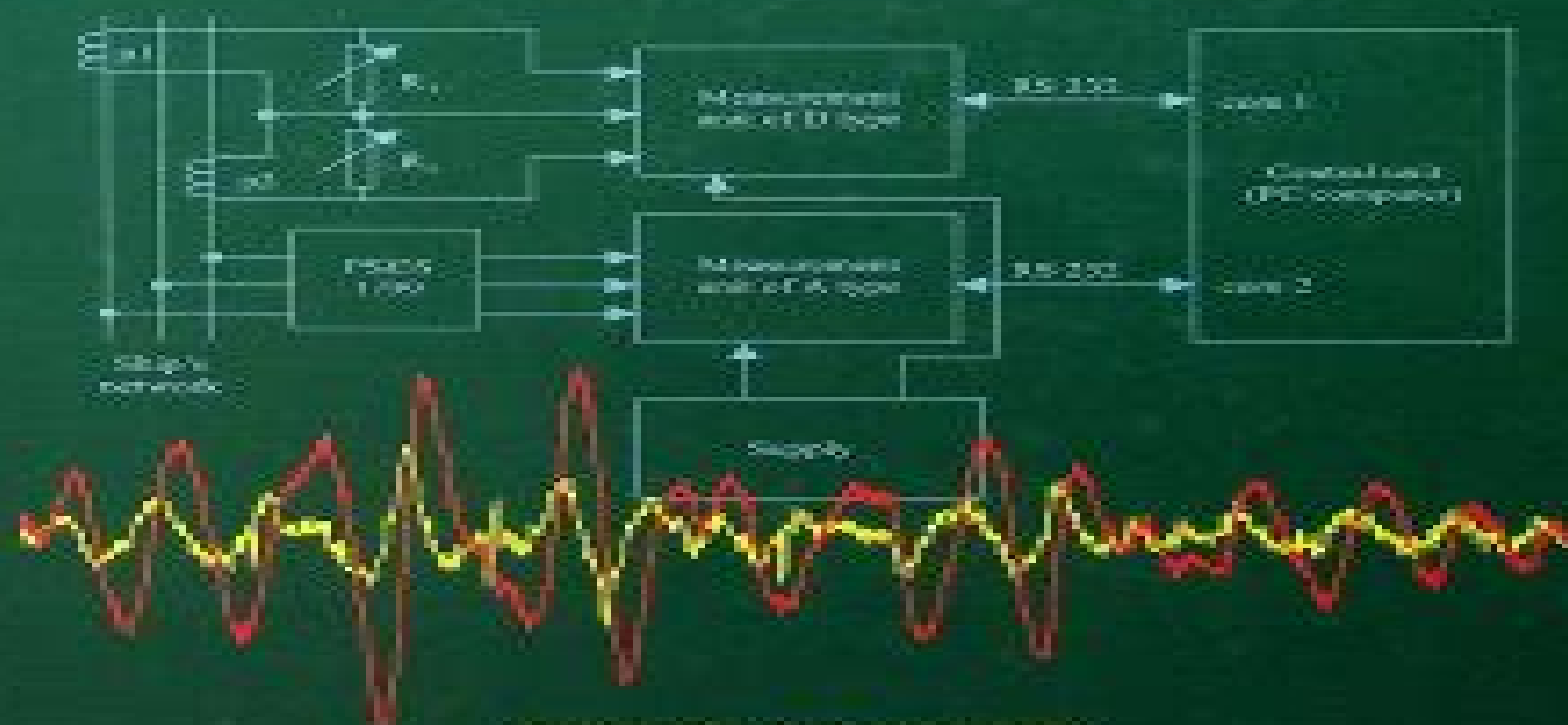


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ASSESSMENT OF ELECTRIC POWER QUALITY IN SHIP SYSTEMS FITTED WITH CONVERTER SUBSYSTEMS



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rounded engineering students and professional engineers This textbook is essential reading for students of marine engineering electrical power systems and electrical engineering alongside engineers working on commercial and navy ships on ports on land and offshore rigs

Shipboard Power Systems Design and Verification Fundamentals Mohammed M. Islam, 2018-07-31 The only book that covers fundamental shipboard design and verification concepts from individual devices to the system level Shipboard electrical system design and development requirements are fundamentally different from utility based power generation and distribution requirements Electrical engineers who are engaged in shipbuilding must understand various design elements to build both safe and energy efficient power distribution systems This book covers all the relevant technologies and regulations for building shipboard power systems which include commercial ships naval ships offshore floating platforms and offshore support vessels In recent years offshore floating platforms have been frequently discussed in exploring deep water resources such as oil gas and wind energy This book presents step by step shipboard electrical system design and verification fundamentals and provides information on individual electrical devices and practical design examples along with ample illustrations to back them In addition Shipboard Power Systems Design and Verification Fundamentals Presents real world examples and supporting drawings for shipboard electrical system design Includes comprehensive coverage of domestic and international rules and regulations e g IEEE 45 IEEE 1580 Covers advanced devices such as VFD Variable Frequency Drive in detail This book is an important read for all electrical system engineers working for shipbuilders and shipbuilding subcontractors as well as for power engineers in general

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IEEE Recommended Practice for Monitoring Electric Power Quality, 2009 Abstract This recommended practice encompasses the monitoring of electrical characteristics of single phase and polyphase ac power systems It includes consistent descriptions of conducted electromagnetic phenomena occurring on power systems This recommended practice describes nominal conditions and deviations from these nominal conditions that may originate within the source of supply or load equipment or may originate from interactions between the source and the load Also this recommended practice discusses power quality monitoring devices application techniques and the interpretation of monitoring results Keywords assessment compatibility dip distortion electromagnetic phenomena harmonics imbalance instruments monitoring power quality rms variation sag swell transient unbalance

New Techniques to Improve Power Quality and Evaluate Stability in Modern All-electric Naval Ship Power Systems Peng Xiao, 2007 This dissertation focuses on two crucial issues in the design and analysis of the power electronic systems on modern all electric naval ships i e power quality control and stability evaluation It includes three papers that deal

with active power filter topology active rectifier control and impedance measurement techniques respectively To mitigate harmonic currents generated by high power high voltage shipboard loads such as propulsion motor drives the first paper proposes a novel seven level shunt active power filter topology which utilizes tapped reactors for parallel operations of switching devices The multi level system has been implemented in both regular digital simulation and real time digital simulator for validation In the second paper a harmonic compensation algorithm for three phase active rectifiers is proposed Based on the theory of multiple reference frames it provides fast and accurate regulation of selected harmonic currents so that the rectifier draws balanced and sinusoidal currents from the source even when the input voltages are unbalanced and contain harmonics Extensive laboratory tests on a 2 kW prototype system verifies the effectiveness of the proposed control scheme The last paper presents a new technique for impedance identification of dc and ac power electronic systems which significantly simplifies the procedure for stability analysis Recurrent neural networks are used to build dynamic models of the system based on a few signal injections then the impedance information can be extracted using off line training and identification algorithms Both digital simulation and hardware tests were used to validate the technique Abstract leaf iv

Electrical Plants and Electric Propulsion on Ships - Extended Edition 2019 Marco Giuffrida, 2018-11-14 Electrical plants on board modern cruise ships offshore rigs and other naval vessels have nowadays reached a size and complexity comparable or even superior to big industrial plants and power plants The continuous increase of the size of ships and the widely accepted adoption of electrical propulsion has led to the installation of HV MV power generation and distribution plants of very high power tens of MW Everybody who plans manages or services these complex on board power plants nowadays must have knowledge as well of HV plants and electrical machines power converters protection relays of control and automation systems This book intends to be an overview of technical features and planning issues of these electrical plants It is meant to bear general validity even if it is focused on larger ships with HV plants and electrical propulsion

Expert Crafting of Ships Electric Energy Systems Mukesh Rajan, 2025-02-20 Expert Crafting of Ships Electric Energy Systems is an essential guide for maritime engineers shipbuilders and anyone involved in designing and operating modern ships Authored by leading experts this comprehensive volume delves into the intricate details of shipboard electric power systems providing invaluable insights into the latest technologies and best practices We cover a wide range of topics from electrical engineering fundamentals to advanced concepts like power distribution propulsion systems and energy management Readers will learn how to optimize energy efficiency enhance safety and comply with regulatory requirements while designing and implementing electric energy systems for ships of all sizes and types Drawing on real world examples and case studies we offer practical guidance on selecting components and equipment troubleshooting common issues and minimizing downtime Whether you re a seasoned professional or a newcomer to the field Expert Crafting of Ships Electric Energy Systems is an indispensable resource for staying at the forefront of maritime technology With clear explanations insightful analysis and

practical advice this book is a trusted companion for anyone involved in shipboard electric power systems Power Engineering International Association of Science and Technology for Development,1984 **Electric power quality measurements on an all-electric ship with AC active front end propulsion drives** ,2007 **Reeds Vol 16: Electrical Power Systems for Marine Engineers** Gordon Boyd,Fred Taylor,2020-10-01 Within the marine and offshore industry there is a clear and growing need for increased training and education on the use of electrical power systems The number of electrical plant and appliances now in service has grown at an alarming rate in recent years as has the amount of electrical power generated and utilised on board Large passenger ships now carry as many electrical officers as marine engineers and electrical propulsion is now in common use by LNG carriers small parcel tankers oil tankers ferries offshore support the navy fleet auxiliary cable layers and cruise ships A number of shipping companies now award the Chief Electro Technical Officer the equivalent rank to the ship's master and Chief Engineer These developments have resulted in the establishment of a Foundation Degree programme for Electro Technical Officers and the current development of full degree programmes As such a targeted textbook for students on the subject is required As with all titles in the Reeds Marine Engineering Series this book will be written in clear accessible language so as to be of use to all students and particularly those for whom English isn't their first language Technical drawings and diagrams will be used throughout and each chapter will be accompanied by example examination questions **Electrical Design for Ocean Wave and Tidal Energy Systems** Raymond Alcorn,Dara O'Sullivan,Institution of Engineering and Technology,2013-11-22 Electrical Design for Ocean Wave and Tidal Energy Systems provides an electrical engineering perspective on offshore power stations and their integration to the grid With contributions from a panel of leading international experts this book is essential reading for those working in ocean energy development and renewable energy Wave and tidal energy engineering has developed strongly in the past decade with hundred MW arrays of full scale grid connected wave and tidal devices planned for the next few years Electrical Design for Ocean Wave and Tidal Energy Systems provides an electrical engineering perspective on these offshore power stations and their integration to the grid Topics covered include the selection and sizing of generators and their interaction with power electronics power cables connectors and umbilicals grid integration and power quality issues energy storage the implementation of control systems in ocean energy devices modelling and simulation the relative costings of various systems and the influence of electrical design on overall project lifetime cost With contributions from a panel of leading international experts Electrical Design for Ocean Wave and Tidal Energy Systems is essential reading for electrical design engineers researchers and students working in ocean energy development and renewable energy **IEEE Recommended Practice for Monitoring Electric Power Quality** ^The %Institute of Electrical and Electronics Engineers (New York),IEEE Standards Coordinating Committee 22 on Power Quality,1995 **Power Quality : Issues and Opportunities** Electric Power Research Institute,CK & Associates,1993 *45.3-2015 IEEE Recommended Practice for Shipboard Electrical*

Installations -- Systems Engineering , **IEEE Guide for the Design and Application of Power Electronics in Electrical Power Systems on Ships** ,2009 Abstract This guide applies to power electronics components and systems on ships and similar applications It summarizes current electrical engineering methods and practices for applying power electronics in electrical power systems on ships and describes analytical methods preferred parameters and performance characteristics from a common frame of reference for reliable integrated marine electrical power systems Keywords electric ships integrated power systems marine electrical power systems power electronics power electronic building blocks propulsion **IEEE Std 1709-2018 (Revision of IEEE Std 1709-2010)** ,2018 **Power Electronics, Industrial Drives, Power Quality** ,1996

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