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INDIAN CUISINE Power Semiconductor
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Photovoltaic Modules and Their
Applications Power Electronics and Ac
Drives Climate Change and Agriculture
Worldwide Electric Drives Cloud Computing
for Geospatial Big Data Analytics A First
Course on Electrical Drives Molecular
Breeding for Rice Abiotic Stress Tolerance
and Nutritional Quality Electric Drives
Hybrid Perovskite Composite Materials
Power Electronics and Motor Control
Fundamentals of Electrical Drives
Utilisation of Electric Power Power
Semiconductor Controlled Drives Cloud
Computing for Optimization: Foundations,*

*Applications, and Challenges Plant
Defence: Biological Control Power
Semiconductor Drives Theory Of Cookery
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and Societies Fundamentals of Electrical
Drives Adaptive Agricultural Practices
Power Electronics and Variable Frequency
Drives Intergrated Systems with Multiploe
Techniques Power Electronics Environmental
Processes and Management Fundamentals of
Electric Drives Handbook of Electric
Motors*

*presents the latest knowledge of improving
the stress tolerance yield and quality of
rice crops one of the most important
cereal crops rice provides food to more
than half of the world population various
abiotic stresses currently impacting an
estimated 60 of crop yields are projected
to increase in severity and frequency due
to climate change in light of the threat
of global food grain insecurity interest*

in molecular rice breeding has intensified in recent years progress has been made but there remains an urgent need to develop stress tolerant bio fortified rice varieties that provide consistent and high quality yields under both stress and non stress conditions molecular breeding for rice abiotic stress tolerance and nutritional quality is the first book to provide comprehensive and up to date coverage of this critical topic containing the physiological biochemical and molecular information required to develop effective engineering strategies for enhancing rice yield authoritative and in depth chapters examine the molecular and genetic bases of abiotic stress tolerance discuss yield and quality improvement of rice and explore new approaches to better utilize natural resources through modern breeding topics include rice adaptation to climate change enriching rice yields under low phosphorus and light intensity increasing iron zinc vitamin and antioxidant content and improving tolerance to salinity drought heat cold submergence heavy metals and ultraviolet b

radiation this important resource contains the latest scientific information on a wide range of topics central to molecular breeding for rice provides timely coverage molecular breeding for improving abiotic stress tolerance bioavailability of essential micronutrients and crop productivity through biotechnological methods features detailed chapters written by internationally recognized experts in the field discusses recent progress and future directions in molecular breeding strategies and research molecular breeding for rice abiotic stress tolerance and nutritional quality is required reading for rice researchers agriculturists and agribusiness professionals and the ideal text for instructors and students in molecular plant breeding abiotic stress tolerance environmental science and plant physiology biochemistry molecular biology and biotechnology variety is the spice of life and knowing to prepare the different cuisines of the states enhances the taste buds this book contains many mouthwatering indian dishes their detailed recipes and their predominant role in indian culture

the simple language and guidelines provide excellent introduction to theory and practices of the regional cooking procedures in indian states the book serves a platter of history of spices their origin the religious and medicinal impact of these spices different cooking utensils and their usage various methods of cooking and many finger licking recipes the text discusses the traditional and special delights of the four broad regions east west north and south the staple food and their occasion oriented backdrop dominate all the descriptions the recipes are simple tested and standardized so that they can be easily adaptable by the students and professionals of college and food service organizations intended for undergraduate and postgraduate students of hotel management this textbook will also be useful for the hoteliers and budding professional chefs key features the book covers staple diet of the people of different religions cultures and customs varied usage of spices and composite masalas different types of gravies used innumerable dishes and their preparations

various domestic tips for kitchen management guidelines on keeping the kitchen fresh and free of odours complete indian cuisine integrated in one compendium suitable for undergraduate courses on electrical drives the contents in this book constitute a mix of modern and conventional topics such as solar powered drives modern traction drives and energy conservation in electrical drives have been covered for the first time in a book of this level a large number of solved and unsolved problems are included this clear and concise advanced textbook is a comprehensive introduction to power electronics hybrid composite perovskite materials design to applications discusses the manufacturing design and characterization of organic inorganic perovskite composite materials the book goes beyond the basics of characterization and discusses physical properties surface morphology and environmental stability users will find extensive examples of real world products that are suitable for the needs of the market following a logical order the book begins with mathematical

background and then covers innovative approaches to physical modeling analysis and design techniques numerous examples illustrate the proposed methods and results making this book a sound resource on the modern research application of perovskite composites with real commercial value discusses the composition of perovskite materials and their properties manufacturing and environmental stability includes both fundamentals and state of the art developments features the main types of applications including solar cells photovoltaics sensors and optoelectronic devices suitable for undergraduate and postgraduate courses in electrical drives this book covers topics on dynamics and control of electrical drives selection of motor power rating dc induction and synchronous motor drives stepper motor and switched reluctance motor drives permanent magnet ac and brushless dc motor drives and more this original contributed volume combines the individual expertise of eleven world renowned professionals to provide comprehensive authoritative coverage of

state of the art power electronics and ac drive technology featuring an extensive introductory chapter by power electronics expert bimal k bose and more than 400 figures power electronics and variable frequency drives covers each of the fields component disciplines and drives all in one complete resource broad in scope and unique in its presentation this volume belongs on the bookshelf of every industry engineer professor graduate student and researcher involved in this fast growing multidisciplinary field it is an essential for teaching research development and design presenting current issues in electric motor design installation application and performance this second edition serves as the most authoritative and reliable guide to electric motor utilization and assessment in the commercial and industrial sectors covering topics ranging from motor energy and efficiency to computer aided design and equipment selection this reference assists professionals in all aspects of electric motor maintenance repair and optimization it has been expanded by more than 40

percent to explore the most influential technologies in the field including electronic controls superconducting generators recent analytical tools new computing capabilities and special purpose motors presently there is no single publication available which covers the topics related to photovoltaic pv or photovoltaic thermal pv t technologies thermal modelling co2 mitigation and carbon trading this book disseminates the current knowledge in the fundamentals of solar energy photovoltaic pv or photovoltaic thermal pv t technologies energy security and climate change and is aimed at undergraduate and postgraduate students and professionals the main emphasis of the book is on the design construction performance and application of pv and pv t from the electricity and thermal standpoint hot topics covered in the book include energy security of a nation climate change co2 mitigation and carbon credit earned by using pv or pv t technologies carbon trading this information will prove helpful in filling the gap between the researchers and

professionals working on the application of photovoltaic and global climate change it also covers economic cost effective and sustainable aspects of photovoltaic technologies the book gives a detailed history of the new technological developments in pv t systems worldwide with system photographs and references and elaborates on the fundamentals of hybrid systems and their performances with thermal modelling energy and exergy analysis techno economic analysis and carbon trading are key chapters for research professionals the book also includes important case studies to aid understanding of the subject for all readers this book is prepared for undergraduate students of various indian universities and those preparing for associate membership examination of the institution of electrical engineers india as well the diploma in electrical engineering examination of various boards of technical education covering the subjects electric drives and control and utilisation of electric energy the chapter on illumination deals extensively with the

principles of the interior factory lighting and flood lighting schemes as well as the features of street lighting a section on photometric measurement is added along with a study of halogen lamps and energy saving fluorescent lamps the chapter on electric drives and control covers the recent trends in electric traction using gto thyristor technology objective type questions were incorporated for self assessment this brief explores several adaptive agricultural practices from around the world to fulfill current and future agricultural demands for food security due to the challenges posed by climate change and growing global population readers will discover how farmers adapt to environmental changes by adopting various agronomic practices at crop farm and landscape levels particular attention is given to systemic and transformational adaptation strategies employed by farmers such as mulching organic farming and crop diversification this is a highly informative and carefully presented book that provides insights on how crops can build up resilience against

periods of drought high salinity disasters such as floods and diseases the policy implications and future prospects of these adaptation strategies are also addressed environmental and plant scientists agronomists and researchers in climate sciences will find this book interesting this book provides a comprehensive introduction to the fundamental concepts of electric drives and is eminently suited as a textbook for b e b tech amie and diploma courses in electrical engineering it can also be used most effectively by all those preparing for gate and upsc competitive examinations as well as by practising engineers the topics which range from principles and techniques to industrial applications include characteristic features of drives methods of braking and speed control electromagnetic and solid state control of motors motor ratings transients in drive systems and operation of stepper motors to meet the challenge of feeding ever increasing human population efficient economical and environment friendly disease control methods are required pests

are responsible for heavy crop losses and reduced food supplies poorer quality of agricultural products economic hardship for growers and processor generally chemical control methods are neither always economical nor are they effective and may have associated unwanted health safety and environmental risks biological control involves use of beneficial microorganism to control plant pathogens and diseases they cause and offers an environmental friendly approach to the effective management of plant diseases this book provides a comprehensive account of interaction of host and its pathogens induced host resistance development of biological control agents for practical applications the underlying mechanism and signal transduction the book is useful to all those working in academia or industry related to crop protection this book presents an in depth science based approach to applying key project management and spatial tools and practices in environmental projects providing important data for those considering projects that balance social economic

growth against minimizing its ill effects on planet earth the book discusses various aspects of environmental engineering as well as formula and analytical approaches required for more informed decision making beginning with a broad overview of the factors and features of environmental processes and management the book then clearly details the general application of fundamental processes the characteristics of the different systems in which they occur and the way in which these factors influence process dynamics environmental systems and their possible remedies while primarily intended for professionals responsible for the management of environmental projects or interested in improving the overall efficiency of such projects it is also useful for managers in the private public and not for profit sectors further it is a valuable resource for students at both undergraduate and postgraduate levels and an indispensable guide for anyone wanting to develop their skills in modern environmental management and related techniques the aim of revision is mainly to acquaint the students with

the recent trends in the development of electric motors used as prime movers in electric drive systems the chapter on introduction to solid state controlled drives has been expanded to include sections on increasingly used brushless dcmotors and switched reluctance motors a separate chapter on the more commonly used position control drive motors namely stepper motors has been also incorporated the drives used in the fast growing petroleum industry have been included in the chapter on industrial applications this text fills a need for a textbook that presents the basic topics and fundamental concepts underlying electric machines power electronics and electric drives for electrical engineering students at the undergraduate level most existing books on electric drives concentrate either on converters and waveform analysis ignoring mechanical load dynamics or on motor characteristics giving short shrift to analysis of converters and controllers this book provides a complete overview of the subject at the right level for ee students the book takes readers through

the analysis and design of a complete electric drives system including coverage of mechanical loads motors converters sensing and controllers in addition to serving as a text this book serves as a useful and practical reference for professional electric drives engineers this book introduces the latest research findings in cloud edge fog and mist computing and their applications in various fields using geospatial data it solves a number of problems of cloud computing and big data such as scheduling security issues using different techniques which researchers from industry and academia have been attempting to solve in virtual environments some of these problems are of an intractable nature and so efficient technologies like fog edge and mist computing play an important role in addressing these issues by exploring emerging advances in cloud computing and big data analytics and their engineering applications the book enables researchers to understand the mechanisms needed to implement cloud edge fog and mist computing in their own endeavours and

motivates them to examine their own research findings and developments a study of power semiconductor controlled drives that contain dc induction and synchronous motors discusses the dynamics of motor and load systems open and closed loop drives and thyristor power transistor and gto converters also reviews arc drives brushless and commutatorless dc drives and rectifier controlled dc drives annotation copyrighted by book news inc portland or over the past few decades the frequency and severity of natural and human induced disasters have increased across asia these disasters lead to substantial loss of life livelihoods and community assets which not only threatens the pace of socio economic development but also undo hard earned gains extreme events and disasters such as floods droughts heat fire cyclones and tidal surges are known to be exacerbated by environmental changes including climate change land use changes and natural resource degradation increasing climate variability and multi dimensional vulnerabilities have severely affected the social ecological and economic capacities

of the people in the region who are economically speaking those with the least capacity to adapt climatic and other environmental hazards and anthropogenic risks coupled with weak and wavering capacities severely impact the ecosystems and nature's contributions to people and thereby to human well-being long-term resilience building through disaster risk reduction and integrated adaptive climate planning therefore has become a key priority for scientists and policymakers alike nature based solutions nbs is a cost effective approach that utilizes ecosystem and biodiversity services for disaster risk reduction and climate change adaptation while also providing a range of co-benefits like sustainable livelihoods and food water and energy security this book discusses the concept of nature based solutions nbs both as a science and as art and elaborates on how it can be applied to develop healthy and resilient ecosystems locally nationally regionally and globally the book covers illustrative methods and tools adopted for applying nbs in different countries the authors discuss

nbs applications and challenges research trends and future insights that have wider regional and global relevance the aspects covered include landscape restoration ecosystem based adaptation ecosystem based disaster risk reduction ecological restoration ecosystem based protected areas management green infrastructure development nature friendly infrastructure development in various ecosystem types agro climatic zones and watersheds the book offers insights into understanding the sustainable development goals sdgs at the grass roots level and can help indigenous and local communities harness ecosystem services to help achieve them it offers a unique essential resource for researchers students corporations administrators and policymakers working in the fields of the environment geography development policy planning the natural sciences life sciences agriculture health climate change and disaster studies this book discusses harnessing the real power of cloud computing in optimization problems presenting state of the art computing paradigms advances in

applications and challenges concerning both the theories and applications of cloud computing in optimization with a focus on diverse fields like the internet of things fog assisted cloud computing and big data in real life many problems ranging from social science to engineering sciences can be identified as complex optimization problems very often these are intractable and as a result researchers from industry as well as the academic community are concentrating their efforts on developing methods of addressing them further the cloud computing paradigm plays a vital role in many areas of interest like resource allocation scheduling energy management virtualization and security and these areas are intertwined with many optimization problems using illustrations and figures this book offers students and researchers a clear overview of the concepts and practices of cloud computing and its use in numerous complex optimization problems a study of power semiconductor controlled drives that contain dc induction and synchronous motors discusses the dynamics of motor and

load systems open and closed loop drives and thyristor power transistor and gto converters also reviews arc drives brushless and commutatorless dc drives and rectifier controlled dc drives annotation copyrighted by book news inc portland or a comprehensive treatment of the subject of power electronics is provided in this book it deals with the principles of operation of various thyristorised power controllers systematically and explains the important basic concepts for a beginner for advanced readers and practising engineers it covers many topics such as static reactive power compensation power factor control current source inverter time sharing inverter multiphase chopper and harmonic control in pwm inverters encouraged by the response to the first edition and to keep pace with recent developments fundamentals of electrical drives second edition incorporates greater details on semiconductor controlled drives includes coverage of permanent magnet ac motor drives and switched reluctance motor drives and highlights new trends in drive technology contents were chosen to satisfy

the changing needs of the industry and provide the appropriate coverage of modern and conventional drives with the large number of examples problems and solutions provided fundamentals of electrical drives second edition will continue to be a useful reference for practicing engineers and for those preparing for engineering service examinations the purpose of this book is to familiarize the reader with all aspects of electrical drives it contains a comprehensive user friendly introductory text in recent years especially with the approach of the 21st session of the conference of the parties to the united nations framework convention on climate change in paris in late 2015 the number of publications conferences and meetings on climate change has been growing exponentially yet uncertainties remain concerning rural tropical areas where models are forecasting the onset of multiple disorders and trends are unclear meanwhile the impact of climate change on the poorest communities is regularly documented often prompting alarmist reactions how can food security be

achieved while adapting to and mitigating climate change what are the main threats to agriculture in developing countries how do farmers in these countries cope with the threats what does agricultural research propose what options have yet to be investigated a broad scope of scientific research is underway to address these challenges diverse solutions are available including new agricultural practices water management agricultural waste recycling diagnosis of emerging diseases payment for ecosystem services etc gaining insight into the financial and political mechanisms that underlie international climate negotiations is also essential to design practical ways to deal with climate issues and meet sustainable development requirements in collaboration with farmers this book pools the wealth of experience of dozens of researchers and development officers from a range of disciplines we have focused on making it detailed accurate and hopefully easy to read for researchers students and all other informed readers the book gathers a collection of high quality peer reviewed

research papers presented at the international conference on data and information systems icdis 2017 held at indira gandhi national tribal university india from november 3 to 4 2017 the book covers all aspects of computational sciences and information security in chapters written by leading researchers developers and practitioner from academia and industry it highlights the latest developments and technical solutions helping readers from the computer industry capitalize on key advances in next generation computer and communication technology

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