

DEPARTMENT OF EDUCATION
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
ELECTROTECHNICS N5
TIME: 3 HOURS
MARKS: 100

QUESTION 1

1.1 By reversing either the field \checkmark or armature connections. \checkmark (2)

1.2 They are placed in slots in the pole shoes. \checkmark They are connected in series with the armature windings. \checkmark (2)

1.3 $V = 550 \text{ V}$ $P = 44 \text{ kW}$ $N = 1500 \text{ rpm}$ $\eta = 85\% = 0.85$
 $R_a = 0.32$ $I_f = 1.8 \text{ A}$ $I_a R_b = 3.5 \text{ V}$

1.3.1 $\text{Input} = \frac{\text{Output}}{\eta} = 44 / 0.85 = 51.765 \text{ kW} \checkmark$

$I_L = P / V = 51765 / 550 \checkmark = 94.12 \text{ A} \checkmark$ (3)

1.3.2 $\text{Output} = \frac{2 \pi N T}{60}$

$44000 = \frac{2 \pi 1500 T}{60} \checkmark$

$T = \frac{44000 \times 60}{2 \pi 1500} \checkmark$

$= 280.25 \text{ Nm} \checkmark$ (3)

1.3.3 $\text{Starting current} = 1.75 \text{ (full load)} = 1.75 \times 94.12 = 164.7 \text{ A} \checkmark$

$I_a = I - I_f = 164.7 - 1.8 = 162.9 \text{ A} \checkmark$

$V = E + V_b + V_a \text{ (at start)} \quad E = 0 \quad V_a = I_a (R_a + x)$

$550 = 0 + 3.5 + 162.9 (0.32 + x) \checkmark$

$x = \frac{550 - 55.63}{16.9}$

$= 2.035 \text{ ohms} \checkmark$

(4)

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Automotive Electronics Reliability Ronald K Jurgen, 2010-08-10 Vehicle reliability problems continue to be the news because of major vehicle recalls from several manufacturers This book includes 40 SAE technical papers published from 2007 through 2010 that describe the latest research on automotive electronics reliability technology This book will help engineers and researchers focus on the design strategies being used to minimize electronics reliability problems and how to test and verify those strategies After an overview of durability risk assessment and failure mechanisms this book focuses on state of the art techniques for reliability based design and reliability testing and verification Topics include powertrain control monitoring distributed automotive embedded systems model based design x by wire systems battery durability design verification fault tree analysis The book also includes editor Ronald K Jurgen s introduction Striving for Maximum Reliability in a Highly Complex Electronic Environment and a concluding section on the future of electronics reliability including networking technology domain control units the use of AUTOSAR and embedded software **American Recycler, May 2009** , Printed Electronics Zheng Cui, 2016-04-12 This book provides an overview of the newly emerged and highly interdisciplinary field of printed electronics Provides an overview of the latest developments and research results in the field of printed electronics Topics addressed include organic printable electronic materials inorganic printable electronic materials printing processes and equipments for electronic manufacturing printable transistors printable photovoltaic devices printable lighting and display encapsulation and packaging of printed electronic devices and applications of printed electronics Discusses the principles of the above topics with support of examples and graphic illustrations Serves both as an advanced introductory to the topic and as an aid for professional development into the new field Includes end of chapter references and links to further reading **Power Electronics in Renewable Energy Systems and Smart Grid** Bimal K. Bose, 2019-08-06 The comprehensive and authoritative guide to power electronics in renewable energy systems Power electronics plays a significant role in modern industrial automation and high efficiency energy systems With contributions from an international group of noted experts Power Electronics in Renewable Energy Systems and Smart Grid Technology and Applications offers a comprehensive review of the technology and applications of power electronics in renewable energy systems and smart grids The authors cover information on a variety of energy systems including wind solar ocean and geothermal energy systems as well as fuel cell systems and bulk energy storage systems They also examine smart grid elements modeling simulation control and AI applications The book s twelve chapters offer an application oriented and tutorial viewpoint and also contain technology status review In addition the book contains illustrative examples of applications and discussions of future perspectives This important resource Includes descriptions of power semiconductor devices two level and multilevel converters HVDC systems FACTS and more Offers discussions on various energy systems such as wind solar ocean and geothermal energy systems and also fuel cell systems and bulk energy storage systems

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El-Atab, 2019-11-11 Flexibility and stretchability of electronics are crucial for next generation electronic devices that involve skin contact sensing and therapeutic actuation This handbook provides a complete entrance to the field from solid state physics to materials chemistry processing devices performance and reliability testing and integrated systems development This work shows how microelectronics signal processing and wireless communications in the same circuitry are impacting electronics healthcare and energy applications Key Features Covers the fundamentals to device applications including solid state and mechanics chemistry materials science characterization techniques and fabrication Offers a comprehensive base of knowledge for moving forward in this field from foundational research to technology development Focuses on processing characterization and circuits and systems integration for device applications Addresses the basic physical properties and mechanics as well as the nuts and bolts of reliability and performance analysis Discusses various technology applications from printed electronics to logic and memory devices sensors actuators displays and energy storage and harvesting This handbook will serve as the one stop knowledge base for readership who are interested in flexible and stretchable electronics

Pratiyogita Darpan, 2008-12 Pratiyogita Darpan monthly magazine is India's largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine 2024-25 RRB JE Stage-II Electronics & Allied Engineering Solved Papers YCT Expert Team , 2024-25 RRB JE Stage II Electronics Allied Engineering Solved Papers

Electronics, Information Technology and Intellectualization Young Min Song, Kyung Sup Kwak, 2015-01-08 The International Conference on Electronics Information Technology and Intellectualization ICEITI2014 was dedicated to build a high level international academic communication forum for international experts and scholars This first conference of an annual series was held in Pengcheng Shenzhen China 16-17 August 2014 Many prestigious experts **Current Trends and Challenges in RFID** Cornel Turcu, 2011-07-20 With the increased adoption of RFID Radio Frequency Identification across multiple industries new research opportunities have arisen among many academic and engineering communities who are currently interested in maximizing the practice potential of this technology and in minimizing all its potential risks Aiming at providing

an outstanding survey of recent advances in RFID technology this book brings together interesting research results and innovative ideas from scholars and researchers worldwide Current Trends and Challenges in RFID offers important insights into RF RFID Background RFID Tag Antennas RFID Readers RFID Protocols and Algorithms RFID Applications and Solutions Comprehensive enough the present book is invaluable to engineers scholars graduate students industrial and technology insiders as well as engineering and technology aficionados

Modeling and Application of Flexible Electronics Packaging YongAn Huang,Zhouping Yin,Xiaodong Wan,2019-04-23 This book systematically discusses the modeling and application of transfer manipulation for flexible electronics packaging presenting multiple processes according to the geometric sizes of the chips and devices as well as the detailed modeling and computation steps for each process It also illustrates the experimental design of the equipment to help readers easily learn how to use it This book is a valuable resource for scholars and graduate students in the research field of microelectronics

Advanced Technologies in Electronics, Communications and Signal Processing Krishna Kishore Koganti,Sreenivasa Rao E.,Nishu Gupta,2025-08-18 This book LNICST 619 constitutes the proceedings of the First EAI International Conference on Advanced Technologies in Electronics Communications and Signal Processing ICATECS 2024 held in Hyderabad India during July 26 27 2024 The 65 full papers were carefully reviewed and selected from 210 submissions They were categorized under the topical sections as follows Wireless Communication and IoT RF and Signal processing VLSI System Design Machine Learning and Deep Learning Applications

Analog Electronics for Radiation Detection Renato Turchetta,2017-12-19 Analog Electronics for Radiation Detection showcases the latest advances in readout electronics for particle or radiation detectors Featuring chapters written by international experts in their respective fields this authoritative text Defines the main design parameters of front end circuitry developed in microelectronics technologies Explains the basis for the use of complementary metal oxide semiconductor CMOS image sensors for the detection of charged particles and other non consumer applications Delivers an in depth review of analog to digital converters ADCs evaluating the pros and cons of ADCs integrated at the pixel column and per chip levels Describes incremental sigma delta ADCs time to digital converter TDC architectures and digital pulse processing techniques complementary to analog processing Examines the fundamental parameters and front end types associated with silicon photomultipliers used for single visible light photon detection Discusses pixel sensors with per pixel TDCs channel density challenges and emerging 3D technologies interconnecting detectors and electronics Thus Analog Electronics for Radiation Detection provides a single source for state of the art information on analog electronics for the readout of radiation detectors

Electronics, Communications and Networks IV Amir Hussain,Mirjana Ivanovic,2015-07-01 The 4th International Conference on Electronic Communications and Networks CECNet2014 inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai CECNet2014 was hosted by Hubei University of Science and Technology China with the main objective of providing a comprehensive global forum for experts and participants from

academia to exchange ideas and presenting results of ongoing research in the most state of the art areas of Consumer Electronics Technology Communication Engineering and Technology Wireless Communications Engineering and Technology and Computer Engineering and Technology In this event 13 famous scholars and Engineers have delivered the keynote speeches on their latest research including Prof Vijaykrishnan Narayanan a Fellow of the Institute of Electrical and Electronics Engineers Prof Han Chieh Chao the Director of the Computer Center for Ministry of Education Taiwan from September 2008 to July 2010 Prof Borko Furht the founder of the Journal of Multimedia Tools and Applications Prof Kevin Deng who served as Acting Director of Hong Kong APAS R D Center in 2010 and Prof Minh Jo the Professor of Department of Computer and Information Science Korea University

Electronics and Instrumentation for Audiologists Paul James Moser, 2013-02-01 This volume is the first electronics and instrumentation for audiology text and provides information on the variety of applications of electronics and audiology that are often omitted from science and engineering books The book explains the operation of various instruments used in audiology applications and it contains pertinent equations numerical examples and practice exercises It also addresses fine details of electronics and instrumentation not often found in other texts including the difficult concepts of electrical impedance and acoustic impedance Additionally it incorporates precise language and high quality drawings to explain electronic concepts clearly and accurately This textbook is ideal for graduate level courses on applications of modern electronics in both hearing aids and diagnostic instruments It is an indispensable resource for students and researchers of audiology and a valuable reference for practicing audiologists

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Harsh Environment Electronics Ahmed Sharif, 2019-03-19 Provides in depth knowledge on novel materials that make electronics work under high temperature and high pressure conditions This book reviews the state of the art in research and development of lead free interconnect materials for electronic packaging technology It identifies the technical barriers to the development and manufacture of high temperature interconnect materials to investigate into the complexities introduced by harsh conditions It teaches the techniques adopted and the possible alternatives of interconnect materials to cope with the impacts of extreme temperatures for implementing at industrial scale The book also examines the application of nanomaterials current trends within the topic area and the potential environmental impacts of material usage Written by world renowned experts from academia and industry Harsh Environment Electronics Interconnect Materials and Performance Assessment covers interconnect materials based on silver gold and zinc alloys as well as advanced approaches utilizing polymers and nanomaterials in the first section The second part is devoted to the performance assessment of the different interconnect materials and their respective environmental impact Takes a scientific approach to analyzing and

addressing the issues related to interconnect materials involved in high temperature electronics Reviews all relevant materials used in interconnect technology as well as alternative approaches otherwise neglected in other literature Highlights emergent research and theoretical concepts in the implementation of different materials in soldering and die attach applications Covers wide bandgap semiconductor device technologies for high temperature and harsh environment applications transient liquid phase bonding glass frit based die attach solution for harsh environment and more A pivotal reference for professionals engineers students and researchers Harsh Environment Electronics Interconnect Materials and Performance Assessment is aimed at materials scientists electrical engineers and semiconductor physicists and treats this specialized topic with breadth and depth *Memoirs of the Institute of Scientific and Industrial Research, Osaka University* Ōsaka Daigaku. Sangyō Kagaku Kenkyūjo, 2010

Stretchable Electronics Takao Someya, 2013-01-29 On a daily basis our requirements for technology become more innovative and creative and the field of electronics is helping to lead the way to more advanced appliances This book gathers and evaluates the materials designs models and technologies that enable the fabrication of fully elastic electronic devices that can tolerate high strain Written by some of the most outstanding scientists in the field it lays down the undisputed knowledge on how to make electronics withstand stretching This monograph provides a review of the specific applications that directly benefit from highly compliant electronics including transistors photonic devices and sensors In addition to stretchable devices the topic of ultraflexible electronics is treated highlighting its upcoming significance for the industrial scale production of electronic goods for the consumer Divided into four parts covering Theory Materials and Processes Circuit Boards Devices and Applications An unprecedented overview of this thriving area of research that nobody in the field or intending to enter it can afford to miss

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