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DDA Junior Engineer (Electrical/Mechanical) Exam: Mechanical Engineering Subject Ebook-PDF

Objective Questions From Various Similar Competitive Exams

Chandresh Agrawal SGN.The Ebook DDA Junior Engineer (Electrical/Mechanical) Exam: Mechanical Engineering Subject Covers Objective Questions From Various Similar Competitive Exams.

Knowledge-Based and Intelligent Information and Engineering Systems

14th International Conference, KES 2010, Cardiff, UK, September 8-10, 2010, Proceedings

Springer Science & Business Media The four-volume set LNAI 6276--6279 constitutes the refereed proceedings of the 14th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2010, held in Cardiff, UK, in September 2010. The 272 revised papers presented were carefully reviewed and selected from 360 submissions. They present the results of high-quality research on a broad range of intelligent systems topics.

Spon's Mechanical and Electrical Services Price Book 2022

CRC Press The definitive M&E price book with additions to the measured works, updates to approximate estimating and new engineering features. Spon's Mechanical and Electrical Services Price Book 2022 continues to be the most comprehensive and best annual services engineering price book currently available, providing detailed pricing information across the full range of mechanical and electrical services, together with higher-level costs for a diverse range of systems and different building applications. Use the access code inside the front cover of the book to get set up with an ebook of this 2022 edition available for access and use until the end of December 2022. All the standard features you have come to expect from SPON'S are also included, considered essential for today's services cost professional: detailed materials prices, labour constants, labour costs and measured work prices for mechanical and electrical works, from above ground drainage to automatic transfer switches, and circuit breakers to sprinkler systems an extensive Approximate Estimating section for quick, rule-of-thumb pricing of mechanical or electrical installations, together with elemental services costs for different types and standard of buildings full details of wage rates, daywork and cost indices on a national and Central London basis. an overhauled index and guidance notes updates, free of charge, twice a year - see inside for registration details. Updates are available online at www.pricebooks.co.uk

Marine Electrical Technology, 4/e H/C

The Book has been thoroughly revised, keeping in mind the rapid technological advances in this mammoth industry and also the feedback received from various quarters. Relevant extracts from current SOLAS, IACS, Lloyd's Register, DNV and ABS Rules, have been included with permission. However, these must be used only for academic purposes. Relevant current documents onboard ships must be referred to, for the purpose of complying with Classification Societies' and other Statutory Requirements.

Continuous Signals and Systems with MATLAB

CRC Press Designed for a one-semester undergraduate course in continuous linear systems, Continuous Signals and Systems with MATLAB®, Second Edition presents the tools required to design, analyze, and simulate dynamic systems. It thoroughly describes the process of the linearization of nonlinear systems, using MATLAB® to solve most examples and problems. With updates and revisions throughout, this edition focuses more on state-space methods, block diagrams, and complete analog filter design. New to the Second Edition • A chapter on block diagrams that covers various classical and state-space configurations • A completely revised chapter that uses MATLAB to illustrate how to design, simulate, and implement analog filters • Numerous new examples from a variety of engineering disciplines, with an emphasis on electrical and electromechanical engineering problems Explaining the subject matter through easy-to-follow mathematical development as well as abundant examples and problems, the text covers signals, types of systems, convolution, differential equations, Fourier series and transform, the Laplace transform, state-space representations, block diagrams, system linearization, and analog filter design. Requiring no prior fluency with MATLAB, it enables students to master both the concepts of continuous linear systems and the use of MATLAB to solve problems.

A Guide to Writing as an Engineer

The purpose of the Beer/McMurrey book is to give engineering students and engineers a brief, easy to use guide to the essentials of engineering writing. Appropriate for use as a supplement to an existing course, or as a resource for an introduction to engineering course that includes writing as one of its components, the Beer/McMurrey book will give engineers the basics of writing reports, specifications, using electronic mail and computers without trying to be an exhaustive survey of all kinds of technical writing.

Active-Matrix Organic Light-Emitting Display Technologies

Bentham Science Publishers Frontiers in Electrical Engineering is a book series dedicated to publishing current research in the field of electrical engineering and electronics. The vast amount of publications concerning these fields are summarized in each series volumes with a key focus on device structures and fabrication techniques that are pertinent to the practical production processes and electronic applications. This volume presents an introduction to the subject of Active-Matrix Organic Light-Emitting Display (AMOLED) technology. AMOLEDs are generally integrated into electronic applications and production processes, including understanding basic optical LED (OLED) working principles and the fabrication and characterization of electronic and semiconductor devices. Other applications of AMOLEDs include white OLEDs, light outcoupling, encapsulation, thin film transistor backplanes, driving schemes, and circuit and layout design technologies. This volume will be helpful to novice scientists and engineers working on the development of practical OLED display and OLED lighting technology. Researchers studying organic electronics and advanced undergraduate and graduate students and professionals involved in the OLED industry will also benefit from the information given in this monograph.

Evaluating Media Richness in Organizational Learning

IGI Global The application of emerging multimedia innovations can significantly benefit organizations across different sectors. These tools aid in increasing competitive advantage and optimizing knowledge management. Evaluating Media Richness in Organizational Learning is an essential reference source for the latest scholarly research on the application of computational tools for knowledge management frameworks and strategies in organizations. Featuring a broad range of coverage on topics and perspectives such as web semantics, product innovation, and knowledge sharing, this book is ideally designed for researchers, consultants, practitioners, professionals, and upper-level students seeking current information on ways to facilitate business innovation and achieve competitive advantage.

Python Machine Learning

Packt Publishing Ltd Unlock deeper insights into Machine Learning with this vital guide to cutting-edge predictive analytics About This Book Leverage Python's most powerful open-source libraries for deep learning, data wrangling, and data visualization Learn effective strategies and best practices to improve and optimize machine learning systems and algorithms Ask - and answer - tough questions of your data with robust statistical models, built for a range of datasets Who This Book Is For If you want to find out how to use Python to start answering critical questions of your data, pick up Python Machine Learning - whether you want to get started from scratch or want to extend your data science knowledge, this is an essential and unmissable resource. What You Will Learn Explore how to use different machine learning models to ask different questions of your data Learn

how to build neural networks using Keras and Theano Find out how to write clean and elegant Python code that will optimize the strength of your algorithms Discover how to embed your machine learning model in a web application for increased accessibility Predict continuous target outcomes using regression analysis Uncover hidden patterns and structures in data with clustering Organize data using effective pre-processing techniques Get to grips with sentiment analysis to delve deeper into textual and social media data In Detail Machine learning and predictive analytics are transforming the way businesses and other organizations operate. Being able to understand trends and patterns in complex data is critical to success, becoming one of the key strategies for unlocking growth in a challenging contemporary marketplace. Python can help you deliver key insights into your data - its unique capabilities as a language let you build sophisticated algorithms and statistical models that can reveal new perspectives and answer key questions that are vital for success. Python Machine Learning gives you access to the world of predictive analytics and demonstrates why Python is one of the world's leading data science languages. If you want to ask better questions of data, or need to improve and extend the capabilities of your machine learning systems, this practical data science book is invaluable. Covering a wide range of powerful Python libraries, including scikit-learn, Theano, and Keras, and featuring guidance and tips on everything from sentiment analysis to neural networks, you'll soon be able to answer some of the most important questions facing you and your organization. Style and approach Python Machine Learning connects the fundamental theoretical principles behind machine learning to their practical application in a way that focuses you on asking and answering the right questions. It walks you through the key elements of Python and its powerful machine learning libraries, while demonstrating how to get to grips with a range of statistical models.

Electrical Engineering Fundamentals

CRC Press Many, in their quest for knowledge in engineering, find typical textbooks intimidating. Perhaps due to an extensive amount of physics theory, an overwhelming barrage of math, and not enough practical application of the engineering principles, laws, and equations. Therein lies the difference between this text and those voluminous and daunting conventional university engineering textbooks. This text leads the reader into more complex and abstract content after explaining the electrical engineering concepts and principles in an easy to understand fashion, supported by analogies borrowed from day-to-day examples and other engineering disciplines. Many complex electrical engineering concepts, for example, power factor, are examined from multiple perspectives, aided by diagrams, illustrations, and examples that the reader can easily relate to. Throughout this book, the reader will gain a clear and strong grasp of electrical engineering fundamentals, and a better understanding of electrical engineering terms, concepts, principles, laws, analytical techniques, solution strategies, and computational techniques. The reader will also develop the ability to communicate with professional electrical engineers, controls engineers, and electricians on their "wavelength" with greater confidence. Study of this book can help develop skills and preparation necessary for succeeding in the electrical engineering portion of various certification and licensure exams, including Fundamentals of Engineering (FE), Professional Engineering (PE), Certified Energy Manager (CEM), and many other trade certification tests. This text can serve as a compact and simplified electrical engineering desk reference. This book provides a brief introduction to the NEC®, the Arc-Flash Code, and a better understanding of electrical energy and associated cost. If you need to gain a better understanding of myriad battery alternatives available in the market, their strengths and weaknesses, and how batteries compare with capacitors as energy storage devices, this book can be a starting point. This book is ideal for engineers, engineering students, facility managers, engineering managers, program/project managers, and other executives who do not possess a current working knowledge of electrical engineering. Because of the simple explanations, analogies, and practical examples employed by the author, this book serves as an excellent learning tool for non-engineers, technical writers, attorneys, electrical sales professionals, energy professionals, electrical equipment procurement agents, construction managers, facility managers, and maintenance managers.

Programming .NET Components

Design and Build .NET Applications Using Component-Oriented Programming

"O'Reilly Media, Inc." 'Programming .NET Components', second edition, updated to cover .NET 2.0., introduces the Microsoft .NET Framework for building components on Windows platforms. From its many lessons, tips, and guidelines, readers will learn how to use the .NET Framework to program reusable, maintainable, and robust components.

Electrical Installation Work

Routledge Brian Scaddan's Electrical Installation Work explains in detail how and why electrical installations are designed, installed and tested. You will be guided in a logical, topic by topic progression through all the areas required to complete the City and Guilds 2357 Diploma in Electrotechnical Technology. Rather than following the order of the syllabus, this approach will make it easy to quickly find and learn all you need to know about individual topics and will make it an invaluable resource after you've completed your course. With a wealth of colour pictures, clear layout, and numerous diagrams and figures providing visual illustration, mastering difficult concepts will be a breeze. This new edition is closely mapped to the new City and Guilds 2357 Diploma and includes a mapping grid to its learning outcomes. It is also fully aligned to the 17th Edition Wiring Regulations. Electrical Installation Work is an indispensable resource for electrical trainees of all ability levels, both during their training and once qualified. Brian Scaddan, I Eng, MIET, is a consultant for and an Honorary Member of City and Guilds. He has over 35 years' experience in Further Education and training. He is Director of Brian Scaddan Associates Ltd, an approved City and Guilds and NICEIC training centre offering courses on all aspects of Electrical Installation Contracting including the City and Guilds 2382, 2391, 2392, 2377 series and NICEIC DISQ courses. He is also a leading author of books on electrical installation.

Newnes Electrical Pocket Book

Taylor & Francis Newnes Electrical Pocket Book is the ideal daily reference source for electrical engineers, electricians and students. First published in 1932 this classic has been fully updated in line with the latest technical developments, regulations and industry best practice. Providing both in-depth knowledge and a broad overview of the field this pocket book is an invaluable tool of the trade. A handy source of essential information and data on the practice and principles of electrical engineering and installation. The 23rd edition has been updated by engineering author and consultant electrical engineer, Martin Heathcote. Major revisions have been made to the sections on semiconductors, power generation, transformers, building automation systems, electric vehicles, electrical equipment for use in hazardous areas, and electrical installation (reflecting the changes introduced to the IEE Wiring Regulations BS7671: 2001).

Electrical Engineer's Portable Handbook

McGraw Hill Professional The first edition of this title proved the most successful of the Portable Handbook series launched in 1999. Aimed at electrical engineers and technicians working in building power systems, the relentlessly practical Handbook succeeded as an in the field working tool. This new edition is necessitated by the new 2002 version of the National Electrical Code (NEC). This code changes render much of the existing material obsolete, so over half the chapters require heavy rewrites to stay current.

Spon's Architects' and Builders' Price Book 2022

CRC Press A range of factors are all combining to propel input cost inflation. Higher international logistics costs, returning demand from industry workload, and higher global metals prices are some of the ingredients to quicker building cost inflation. Whilst some EU materials exporters to the UK are adjusting to Brexit, other EU exporters — initially smaller or specialist firms hit proportionally harder — are now deciding not to supply the UK at all, because the additional red tape involved makes it not commercially viable. If this trend replicates across the whole EU to UK supply chain, visible disruption and higher prices are likely until other sources of supply begin to increase in volume and step in to address these supply issues. Among other exporters continuing to supply the UK, significant price increases are being applied to cover the permanent Brexit non-tariff barriers and additional administrative processes. SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK 2022, compiled by AECOM, still provides the most accurate, detailed and professionally relevant construction price information for the UK. Its unique Tender Index, updated through the year (2015 = 100), gives an ongoing reality check and allows you to adjust for changing market conditions. Although it suits a wide range of project sizes, this is the only price book which sets out a detailed cost base for contracts exceeding £4,000,000 in value. Use the access code inside the front cover of the book to get set up with an ebook of this 2022 edition on the VitalSource® Bookshelf platform, available for access and use until the end of December 2022. As well as an overhaul of prices, 145 new items have been added including: Two new Cost Models for school refurbishment Primary Healthcare Fit-Out Plus, expanded range of cast iron rainwater goods expanded range of matwells expanded range of vinyl floor finishes Ecotherm insulation Along with the standard features you have come to expect from SPON'S ARCHITECTS' AND BUILDERS' PRICE BOOK: 20,000 prices for the most frequently specified items, the majority with labour constants and detailed build-ups Hundreds of alternative materials prices for the more unusual items Detailed guidance on wage rates, daywork, cost limits and allowances, property insurance and professional fees, plus useful formulae, design criteria and trade association addresses Updates, free of charge, twice a year - see inside for registration details. Updates are available online at www.pricebooks.co.uk

AutoCAD Electrical 2021 for Electrical Control Designers, 12th Edition

CADCIM Technologies The AutoCAD Electrical 2021 for Electrical Control Designers book has been written to assist the engineering students and the practicing designers who are new to AutoCAD Electrical. Using this book, the readers can learn the application of basic tools required for creating professional electrical control drawings with the help of AutoCAD Electrical. Keeping in view the varied requirements of the users, this book covers a wide range of tools and features such as schematic drawings, Circuit Builder, panel drawings, parametric and nonparametric PLC modules, stand-alone PLC I/O points, ladder diagrams, point-to-point wiring diagrams, report generation, creation of symbols, and so on. This will help the readers to create electrical drawings easily and effectively. Salient Features Consists of 13 chapters and 2 projects that are organized in a pedagogical sequence. Comprehensive coverage of AutoCAD Electrical 2021 concepts and techniques. Tutorial approach to explain the concepts of AutoCAD Electrical 2021. Detailed explanation of all commands and tools. Summarized content on the first page of the topics that are covered in the chapter. Hundreds of illustrations for easy understanding of concepts. Step-by-step instructions to guide the users through the learning process. More than 45 tutorials and projects. Additional information throughout the book in the form of notes and tips.

Self-Evaluation Tests, Review Questions, and Exercises at the end of each chapter to help the users assess their knowledge. Table of Contents Chapter 1: Introduction to AutoCAD Electrical 2021 Chapter 2: Working with Projects and Drawings Chapter 3: Working with Wires Chapter 4: Creating Ladders Chapter 5: Schematic Components Chapter 6: Schematic Editing Chapter 7: Connectors, Point-To-Point Wiring Diagrams, and Circuits Chapter 8: Panel Layouts Chapter 9: Schematic and Panel Reports Chapter 10: PLC Modules Chapter 11: Terminals Chapter 12: Settings, Configuration, Templates, and Plotting Chapter 13: Creating Symbols Project 1 Project 2 (For free download) Index Free Teaching and Learning Resources: CAD/CIM Technologies provides the following free teaching and learning resources with this book: Technical support by contacting 'techsupport@cadcim.com' Part files used in tutorials, exercises *, and illustrations Instructor Guide with solution to all review questions and instructions to create the models for exercises * Additional learning resources at 'allaboutcadcam.blogspot.com' and 'youtube.com/cadcimtech' (* For Faculty only) We also provide video courses on AutoCAD Electrical. To enroll, please visit the CAD/CIM website using the following link: 'www.cadcim.com/video-courses'

Modern Wiring Practice

Routledge Continuously in print since 1952, Modern Wiring Practice has now been fully revised to provide an up-to-date source of reference to building services design and installation in the 21st century. This compact and practical guide addresses wiring systems design and electrical installation together in one volume, creating a comprehensive overview of the whole process for contractors and architects, as well as electricians and other installation engineers. Best practice is incorporated throughout, combining theory and practice with clear and accessible explanation, all within the framework of the Wiring Regulations. Introducing the fundamentals of design and installation with a minimum of mathematics, this book is also relevant reading for all students of electrical installation courses, such as the 2330 Certificate in Electrotechnical Technology, and NVQs from City & Guilds (including 2356, 2391 and 2382 awards), as well as trainees in industry undertaking Apprenticeships and Advanced Apprenticeships. This new edition incorporates the latest thinking on sustainability and the environment and is fully up-to-date with the 17th Edition of the IEE Wiring Regulations. Illustrations have been completely updated to show current best practice and are now in full colour. Reviews of a previous edition: 'This book has long been a favourite of mine. Its regular updating by the issue of new editions ensures it is always completely up to date with the requirements of electrical installation. It is a book that I would thoroughly recommend to any person with an involvement in our industry for it is without doubt one of the very best available, written in a clear and readily understandable manner.' Electrical Contractor 'Refreshingly practical. This book will prove useful to anyone involved in the design and installation of electrical systems: from the apprentice to the architect.' Electrical Review

Building Services Engineering

4th Edition

Routledge Engineering services present a significant cost in terms of the installation cost, the energy consumed and the maintenance, repair and upgrading of the systems. It is therefore important that construction professionals have a good understanding of the basics and applications of building services engineering. This thoroughly up-dated fourth edition of David Chadderton's text provides study materials in the fields of construction, architectural, surveying and energy engineering. In particular, the chapters on The Built Environment and Energy Economics benefit from the author's recent industrial work. Additional material, including further questions, interactive calculations, simple PowerPoint material and links to related websites, are available on the author's website. David is a Chartered Professional Engineer with the Institution of Engineers Australia, a Chartered Building Services Engineer with the Engineering Council in the UK, through the Chartered Institution of Building Services Engineers, and a Member of the Australian Institute of Refrigeration, Air Conditioning and Heating. Since November 2001, David he has been Director of his own company, Eteq Pty Ltd. specializing in the designing and implementation of energy saving projects in commercial, health care, university and manufacturing buildings.

Building Services Engineering Spreadsheets

Routledge Building Services Engineering Spreadsheets is a versatile, user friendly tool for design calculations. Spreadsheet application software is readily understandable since each formula is readable in the location where it is used. Each step in the development of these engineering solutions is fully explained. The book provides study material in building services engineering and will be valuable both to the student and to the practising engineer. It deals with spreadsheet use, thermal transmittance, building heat loss and heat gain, combustion analysis, fan selection, air duct design, water pipe sizing, lumen lighting design, electrical cable sizing, at a suitable level for practical design work. Commercially available software, while very powerful and comprehensive, does not allow the user any facility to look into the coded instructions. The user has to rely upon the supplier for explanation, updates and corrections. The advantage that the spreadsheet applications provided with the book have over purchased dedicated software, is that the user can inspect everything that the program undertakes. Parts of the worksheets can be copied to other cells in order to expand the size of each worksheet. Experienced spreadsheet operators can edit the cells to change the way in which data and calculations are used, and with guidance from the explanatory, build their own applications.

Handbook of Electrical Engineering Calculations

CRC Press Written by experienced teachers and recognized experts in electrical engineering, Handbook of Electrical Engineering Calculations identifies and solves the seminal problems with numerical techniques for the principal branches of the field -- electric power, electromagnetic fields, signal analysis, communication systems, control systems, and computer engineering. It covers electric power engineering, electromagnetics, algorithms used in signal analysis, communication systems, algorithms used in control systems, and computer engineering. Illustrated with detailed equations, helpful drawings, and easy-to-understand tables, the book serves as a practical, on-the-job reference.

Instant HubSpot Dashboard Customization

Packt Publishing Ltd Filled with practical, step-by-step instructions and clear explanations for the most important and useful tasks. A headlong guide including example driving situations, clear instructions for important tasks, and details for enhancing your social media management experience. This book is a perfect fit if you are an inbound marketing beginner who feels and believes that handling multiple marketing channels to generate leads is a cumbersome activity. The best part is, you don't need to have coding skills to customize your Hubspot portal when you've got this book. Basic knowledge of computers is essential.

The Chronicles of Lorenzo

Volume 1

Createspace Independent Publishing Platform I began writing this book on my 74th birthday. My objective at the time was to record a short account each day so as to have a collection of 365 stories one year later. Gradually, I fell behind and decided to write only 254 little vignettes instead. Finally, after falling even more behind, I decided to write five volumes of 200 stories each. This is Volume 1. In May of 2017 I launched a Patreon site where I could interact with a few people who wanted to support my writing on a monthly basis. These are my patrons, and without them I most likely would not have finished this first volume. However, their financial support and words of encouragement worked, and here we are today. As I released parts of this book for them to read, their comments began to change my concept of what it was to be. I first began writing these stories by hand, and so they were quite short for the most part. After switching to writing on my computer, coupled with comments from my patrons, my stories gradually became longer, not all of them, but for the most part I liked the ideas that I was hearing, and so my stories have been getting longer lately. As you will see, there is no plan or structure to the flow of these stories. Each day, as I sat down to write one, I simply wrote about whatever struck my fancy on that day. The result, however, opened my eyes to reveal what my subconscious daily thoughts were finding interesting or significant enough to spend the time writing about. Ultimately, our stories make up the fabric of our lives. I've got many more stories to tell, but here are the first 200 that came to my mind. I hope that you enjoy reading them as much as I have enjoyed living them.

Business Communication: In Person, In Print, Online

Cengage Learning BUSINESS COMMUNICATION: IN PERSON, IN PRINT, ONLINE, 9E offers a realistic approach to communication in today's organizations. The text covers the most important business communication concepts in detail and thoroughly integrates coverage of today's social media and other communication technologies. Building on core written and oral communication skills, the ninth edition helps readers make sound medium choices and provides guidelines and examples for the many ways people communicate at work. Readers learn how to create PowerPoint decks, use instant messaging and texting effectively at work, engage customers using social media, lead web meetings and conference calls, and more. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fundamentals of Electrical Engineering

CRC Press Real-world engineering problems are rarely, if ever, neatly divided into mechanical, electrical, chemical, civil, and other categories. Engineers from all disciplines eventually encounter computer and electronic controls and instrumentation, which require at least a basic knowledge of electrical and other engineering specialties, as well as associated economics, and environmental, political, and social issues. Co-authored by Charles Gross—one of the most well-known and respected professors in the field of electric machines and power engineering—and his world-renowned colleague Thad Roppel, Fundamentals of Electrical Engineering provides an overview of the profession for engineering professionals and students whose specialization lies in areas other than electrical. For instance, civil engineers must contend with commercial electrical service and lighting design issues. Mechanical engineers have to deal with motors in HVAC applications, and chemical engineers are forced to handle problems involving process control. Simple and easy-to-

use, yet more than sufficient in rigor and coverage of fundamental concepts, this resource teaches EE fundamentals but omits the typical analytical methods that hold little relevance for the audience. The authors provide many examples to illustrate concepts, as well as homework problems to help readers understand and apply presented material. In many cases, courses for non-electrical engineers, or non-EEs, have presented watered-down classical EE material, resulting in unpopular courses that students hate and senior faculty members understandingly avoid teaching. To remedy this situation—and create more well-rounded practitioners—the authors focus on the true EE needs of non-EEs, as determined through their own teaching experience, as well as significant input from non-EE faculty. The book provides several important contemporary interdisciplinary examples to support this approach. The result is a full-color modern narrative that bridges the various EE and non-EE curricula and serves as a truly relevant course that students and faculty can both enjoy.

EBOOK: Using Information Technology Complete Edition

McGraw Hill EBOOK: Using Information Technology Complete Edition

A Textbook of Applied Electronics

S. Chand Publishing The present book has been thoroughly revised and lot of useful material has been added .several photographs of electronic devices and their specifications sheets have been included.This will help the students to have a better understanding of the electrinic devices and circuits from application point of view.the mistake and misprints,which has crept in,have been eliminated in this edition.

Creativity And Innovation in Business - 212-page collection of 55 best practices, case studies, and insights on the current state of Innovation in Business at Top Innovators including Apple, Google, Netflix, 3M, Proctor & Gamble, Johnson & Johnson, GE,...

Creativity Innovation eBook

Creativity and Innovation in Business

Creativity Innovation eBook

Engineering Communication: A Practical Guide to Workplace Communications for Engineers

Engage Learning **ENGINEERING COMMUNICATION: A PRACTICAL GUIDE TO WORKPLACE COMMUNICATIONS FOR ENGINEERS, 2E** is ideal for both future and practicing engineers. Predicated on the successful dynamic analysis model CMAPP (context, message, audience, purpose and product), this practical guide provides readers with a variety of communication strategies. Engineers gain important help in creating the types of proposals, reports, memos, letters, job application documents, and digital/social media publications that are most needed for today's workplace. Interrelated case studies and exercises help readers develop the critical thinking and planning skills essential in contemporary engineering. Current and future engineers learn to evaluate important ethical and cultural considerations as they master the development of the effective business communication essential in today's careers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Agile Scrum

Your Quick Start Guide with Step-By-Step Instructions

Createspace Independent Publishing Platform **EXPANDED AND UPDATED** Deliver Products in Short Cycles with Rapid Adaptation to Change, Fast Time-to-Market, and Continuous Improvement -- Which Supports Innovation and Drives Competitive Advantage Shifting customer needs are common in today's marketplace. Businesses must be adaptive and responsive to change while delivering an exceptional customer experience to be competitive. There are a variety of frameworks supporting the development of products and services, and most approaches fall into one of two broad categories: traditional or agile. Traditional practices such as waterfall engage sequential development, while agile involves iterative and incremental deliverables. Organizations are increasingly embracing agile to manage projects, and best meet their business needs of rapid response to change, fast delivery speed, and more. With clear and easy to follow step-by-step instructions, Agile Scrum helps you: - Implement and use the most popular agile framework -- Scrum - Deliver products in short cycles with rapid adaptation to change, fast time-to-market, and continuous improvement - Support innovation and drive competitive advantage Agile Scrum is for those interested or involved in innovation, project management, product development, software development or technology management. It's for those who have not yet used Scrum. It's also for people already using Scrum, in roles such as Product Owners, Scrum Masters, Development Team members (business analysts, solution and system architects, designers, developers, testers, etc.), customers, end users, agile coaches, executives, managers, and other stakeholders. For those already using Scrum, this guide can serve as a reference on practices for consideration and potential adaptation. Reactions to Agile Scrum have been incredibly positive. "A superbly written and presented guide to team-based project management that is applicable across a broad range of businesses from consumer products to high-tech." - IndieBRAG "Recommended." - The US Review of Books "The book is excellent." - Readers' Favorite "An all-inclusive instruction guide that is impressively 'user-friendly' in tone, content, clarity, organization, and presentation." - Midwest Book Review "A-type personalities (those inclined to avoid instruction manuals) and non-readers will rejoice upon discovering this guide which makes getting started with Agile Scrum a breeze." - Literary Classics Book Reviews "A must-have for a project manager wanting to introduce Scrum to the organization." - PM World Journal "A clear and authoritative roadmap for successful implementation." - BookViral Agile Scrum has received 17 FIRST PLACE WINS in national and international competitions: 5th Annual Beverly Hills International Book Awards - Business-General category 5th Annual Beverly Hills International Book Awards -Technology category 2016 London Book Festival - Business category Fall 2016 Pinnacle Book Achievement Awards - Business category 2017 Feathered Quill Book Awards - Informational (Business) category 2016 New Apple Book Awards - Technology category 2017 Independent Press Award - Technology category 11th Annual National Indie Excellence Awards - Technology category 2017 Pacific Rim Book Festival - Business category 2017 Bookvana Awards - Green/Conscious Business category 2017 Book Excellence Awards - Technology category 14th Annual Best Book Awards - Business Reference category 2017 New York City Big Book Awards - Technology category 2017 Royal Dragonfly Book Awards - Science & Technology category 2017 Human Relations Indie Book Awards - Workplace category 2018 Florida Book Festival - Business category 2018 Pacific Book Awards - Business category Agile Scrum -- get your copy today!

Mastering Social Media Mining with R

Packt Publishing Ltd Extract valuable data from your social media sites and make better business decisions using R About This Book Explore the social media APIs in R to capture data and tame it Employ the machine learning capabilities of R to gain optimal business value A hands-on guide with real-world examples to help you take advantage of the vast opportunities that come with social media data Who This Book Is For If you have basic knowledge of R in terms of its libraries and are aware of different machine learning techniques, this book is for you. Those with experience in data analysis who are interested in mining social media data will find this book useful. What You Will Learn Access APIs of popular social media sites and extract data Perform sentiment analysis and identify trending topics Measure CTR performance for social media campaigns Implement exploratory data analysis and correlation analysis Build a logistic regression model to detect spam messages Construct clusters of pictures using the K-means algorithm and identify popular personalities and destinations Develop recommendation systems using Collaborative Filtering and the Apriori algorithm In Detail With an increase in the number of users on the web, the content generated has increased substantially, bringing in the need to gain insights into the untapped gold mine that is social media data. For computational statistics, R has an advantage over other languages in providing readily-available data extraction and transformation packages, making it easier to carry out your ETL tasks. Along with this, its data visualization packages help users get a better understanding of the underlying data distributions while its range of "standard" statistical packages simplify analysis of the data. This book will teach you how powerful business cases are solved by applying machine learning techniques on social media data. You will learn about important and recent developments in the field of social media, along with a few advanced topics such as Open Authorization (OAuth). Through practical examples, you will access data from R using APIs of various social media sites such as Twitter, Facebook, Instagram, GitHub, Foursquare, LinkedIn, Blogger, and other networks. We will provide you with detailed explanations on the implementation of various use cases using R programming. With this handy guide, you will be ready to embark on your journey as an independent social media analyst. Style and approach This easy-to-follow guide is packed with hands-on, step-by-step examples that will enable you to convert your real-world social media data into useful, practical information.

Basic Electrical Engineering

S. Chand Publishing For close to 30 years, "Basic Electrical Engineering" has been the go-to text for students of Electrical Engineering. Emphasis on concepts and clear mathematical derivations, simple language coupled with systematic development of the subject aided by illustrations makes this text a fundamental read on the subject. Divided into 17 chapters, the book covers all the major topics such as DC Circuits, Units of Work, Power and Energy, Magnetic Circuits, fundamentals of AC Circuits and Electrical Instruments and Electrical Measurements in a straightforward manner for students to understand.

Introduction to Sensors for Electrical and Mechanical Engineers

CRC Press Sensors are all around us. They are in phones, cars, planes, trains, robots, mills, lathes, packaging lines, chemical plants, power plants, etc. Modern technology could not exist without sensors. The sensors measure what we need to know and the control system then performs the desired actions. When an engineer builds any machine he or she needs to have basic understanding about sensors. Correct sensors need to be selected for the design right from the start. The designer needs to think about the ranges, required accuracy, sensor cost, wiring, correct installation and placement etc. Without the basic knowledge of sensors fundamental no machine can be built successfully today. The objective of this book is to provide the basic knowledge to electrical and mechanical engineers, engineering students and hobbyist from the field of sensors to help them with the selection of "proper" sensors for their designs. No background knowledge in electrical engineering is required, all the necessary basics are provided. The book explains how a sensor works, in what ranges it can be used, with what accuracy etc. It also provides examples of industrial application for selected sensors. The book covers all the major variables in mechanical engineering such as temperature, force, torque, pressure, humidity, position, speed, acceleration etc. The approach is always as follows: - Explain how the sensor works, what is the principle - Explain in what ranges and with what accuracy it can work - Describe its properties with charts, eventually equations - Give examples of such sensors including application examples

Electrical and Electronic Principles and Technology

Taylor & Francis This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples, enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering, electronics and telecommunications. No previous background in engineering is assumed, making this an ideal text for vocational courses at Levels 2 and 3, foundation degrees and introductory courses for undergraduates.

Communications Engineering Desk Reference

Academic Press A one-stop Desk Reference, for R&D engineers involved in communications engineering; this is a book that will not gather dust on the shelf. It brings together the essential professional reference content from leading international contributors in the field. Material covers a wide scope of topics including voice, computer, facsimile, video, and multimedia data technologies * A fully searchable Mega Reference Ebook, providing all the essential material needed by Communications Engineers on a day-to-day basis. * Fundamentals, key techniques, engineering best practice and rules-of-thumb together in one quick-reference. * Over 2,500 pages of reference material, including over 1,500 pages not included in the print edition

Engineering Drawing

Engineering Drawing + Sketchbook is print only resource. Engineering Drawing remains the leading Australian text for students studying engineering drawing and graphics. The 8th edition is in line with the MEM05 Metal and Engineering Training Package, competency-based training courses and current Australian Standards. Building on Boundy's meticulous and trusted approach to his subject, there is a CAD corner feature, question banks, problems and reference tables. Presented in a step-by-step format, Engineering Drawing, 8th Edition offers maximum accessibility and convenience. The new edition of Engineering Drawing provides thorough coverage of mechanical engineering drawing and expanded coverage of electrical, structural, hydraulics and pneumatics drawing. In addition, the free sketchbook provides a complete course in sketching orthogonal and pictorial views freehand. This edition is an indispensable resource for students and a useful reference for professionals. New to this Edition Expanded coverage of electrical, structural, hydraulics, pneumatics Extended coverage of CAD drawing Increased number of problems and activities Expanded coverage of 3D Solids drawing

HDInsight Essentials - Second Edition

Packt Publishing Ltd If you want to discover one of the latest tools designed to produce stunning Big Data insights, this book features everything you need to get to grips with your data. Whether you are a data architect, developer, or a business strategist, HDInsight adds value in everything from development, administration, and reporting.

Comprehensive Dictionary of Electrical Engineering

Springer Science & Business Media Complete coverage of all fields of electrical engineering. The book provides workable definitions for practicing engineers, while serving as a reference and research tool for students, and offering practical information for scientists and engineers in other disciplines. Areas examined include applied electrical, microwave, control, power, and digital systems engineering, plus device electronics.

Electrical Machine Drives

Fundamental Basics and Practice

CRC Press This work was developed based on the author's experience of more than 10 years working in research and industry in the areas of electrical drives and industrial automation. Seeking the connection between theory and its applications, the author presents a detailed conceptual description with lots of figures and illustrative examples that harmonize the theoretical approach with the practice. Composed of eleven chapters and three appendices, the book describes in a dynamic and didactic way the fundamental concepts related to the drives of electric machines. At the end of each chapter is a set of exercises to ease the fixation of the presented content.

Terahertz Technology

Fundamentals and Applications

Springer Science & Business Media The book presents information about Terahertz science, Terahertz photodetectors and Terahertz Lasers. A special emphasis is given to room temperature operation of long wavelength photodetectors based on novel quantum dots (Centered Defect Spherical Quantum Dots). Moreover, a complete analysis of systems based on Quantum Cascade structures to detect far infrared wavelengths is provided. Finally, the book presents Terahertz laser principles considering multi-color lasers in this range of wavelengths. Written as a background for graduate students in the Optics field.