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Fundamentals of Deep Learning and Computer Vision Nikhil Singh 2020-02-24 Master Computer Vision concepts using Deep Learning with easy-to-follow steps DESCRIPTION This book starts with setting up a Python virtual environment with the deep learning framework TensorFlow and then introduces the fundamental concepts of TensorFlow. Before moving on to Computer Vision, you will learn about neural networks and related aspects such as loss functions, gradient descent optimization, activation functions and how backpropagation works for training multi-layer perceptrons. To understand how the Convolutional Neural Network (CNN) is used for computer vision problems, you need to learn about the basic convolution operation. You will learn how CNN is different from a multi-layer perceptron along with a thorough discussion on the different building blocks of the CNN architecture such as kernel size, stride, padding, and pooling and finally learn how to build a small CNN model. Next, you will learn about different popular CNN architectures such as AlexNet, VGGNet, Inception, and ResNets along with different object detection algorithms such as RCNN, SSD, and YOLO. The book concludes with a chapter on sequential models where you will learn about RNN, GRU, and LSTMs and their architectures and understand their applications in machine translation, image/video captioning and video classification. KEY FEATURES Setting up the Python and TensorFlow environment Learn core Tensorflow concepts with the latest TF version 2.0 Learn Deep Learning for computer vision applications Understand different computer vision concepts and use-cases Understand different state-of-the-art CNN architectures Build deep neural networks with transfer Learning using features from pre-trained CNN models Apply computer vision concepts with easy-to-follow code in Jupyter Notebook WHAT WILL YOU LEARN This book will help the readers to understand and apply the latest Deep Learning technologies to different interesting computer vision applications without any prior domain knowledge of image processing. Thus, helping the users to acquire new skills specific to Computer Vision and Deep Learning and build solutions to real-life problems such as Image Classification and Object Detection. This book will serve as a basic guide for all the beginners to master Deep Learning and Computer Vision with lucid and intuitive explanations using basic mathematical concepts. It also explores these concepts with popular the deep learning framework TensorFlow. WHO THIS BOOK IS FOR This book is for all the Data Science enthusiasts and practitioners who intend to learn and master Computer Vision concepts and their applications using Deep Learning. This book assumes a basic Python understanding with hands-on experience. A basic senior secondary level understanding of Mathematics will help the reader to make the best out of this book. Table of Contents 1. Introduction to TensorFlow 2. Introduction to Neural Networks 3. Convolutional Neural Network 4. CNN Architectures 5. Sequential Models

Military Avionics Systems Ian Moir 2019-02-12 Ian Moir and Allan Seabridge Military avionics is a complex and technically challenging field which requires a high level of competence from all those involved in the aircraft design and maintenance. As the various systems on board an aircraft evolve to become more and more inter-dependent and integrated, it is becoming increasingly important for designers to have a holistic view and knowledge of aircraft systems in order to produce an effective design for their individual components and effectively combine the systems involved. This book introduces the military roles expected of aircraft types and describes the avionics systems required to fulfil these roles. These range from technology and architectures through to navigations systems, sensors, computing architectures and the human-machine interface. It enables students to put together combinations of systems in order to perform specific military roles. Sister volume to the authors' previous successful title 'Civil Avionics Systems' Covers a wide range of military aircraft roles and systems applications Offers clear and concise system descriptions Includes case studies and examples from current projects Features full colour illustrations detailing aircraft display systems Military Avionics Systems will appeal to practitioners in the aerospace industry across many disciplines such as aerospace engineers, designers, pilots, aircrew, maintenance engineers, ground crew, navigation experts, weapons developers and instrumentation developers. It also provides a valuable reference source to students in the fields of systems and aerospace engineering and avionics.

Knowledge Graphs Mayank Kejriwal 2021-03-30 A rigorous and comprehensive textbook covering the major approaches to knowledge graphs, an active and interdisciplinary area within artificial intelligence. The field of knowledge graphs, which allows us to model, process, and derive insights from complex real-world data, has emerged as an active and interdisciplinary area of artificial intelligence over the last decade, drawing on such fields as natural language processing, data mining, and the semantic web. Current projects involve predicting cyberattacks, recommending products, and even gleaning insights from thousands of papers on COVID-19. This textbook offers rigorous and comprehensive coverage of the field. It focuses systematically on the major approaches, both those that have stood the test of time and the latest deep learning methods.

International Aerospace and Ground Conference on Lightning and Static Electricity 1991

Handbook of Air Pollution from Internal Combustion Engines Eran Sher 1998-03-20 This handbook is an important and valuable source for engineers and researchers in the area of internal combustion engines pollution control. It provides an excellent updated review of available knowledge in this field and furnishes essential and useful information on air pollution constituents, mechanisms of formation, control technologies, effects of engine design, effects of operation conditions, and effects of fuel formulation and additives. The text is rich in explanatory diagrams, figures and tables, and includes a considerable number of references. An important resource for engineers and researchers in the area of internal combustion engines and pollution control Presents and excellent updated review of the available knowledge in this area Written by 23 experts Provides over 700 references and more than 500 explanatory diagrams, figures and tables

Global Aeronautical Distress and Safety Systems (GADSS) Stojče Dimov Ilčev 2019-12-10 This book presents the principal structure, networks and applications of the Global Aeronautical Distress and Safety System (GADSS) for enhanced airborne Communication, Navigation and Surveillance (CNS). It shows how their implementation works to ensure better security in flight and on the airports surface; improved aircraft tracking and determination in real space and time; and enhanced distress alerting, safety; and Search and Rescue (SAR) system for missing, hijacked and landed aircraft at sea or on the ground. Main topics of this book are as follows: an overview of radio and satellite systems with retrospective to aeronautical safety; security and distress systems; space segment with all aspects regarding satellite orbits and infrastructures; transmission segment of radio and satellite systems; ground segment of radio and earth ground stations; airborne radio and satellite antenna systems and propagation; aeronautical VHF and HF Radio CNS systems and networks; Inmarsat, Iridium and Cospas-Sasrast aeronautical satellite CNS systems and networks; Aeronautical Global Satellite Augmentation System (GSAS) and networks; Digital Video Broadcasting - Return Channel via Satellite (DVB-RCS) standards and Aeronautical Stratospheric Platform Systems (SPS) and networks.

Computer Science Education Research Sally Fincher 2014-04-21 This book provides an overview of how to approach computer science education research from a pragmatic perspective. It represents the diversity of traditions and approaches inherent in this interdisciplinary area, while also providing a structure within which to make sense of that diversity. It provides multiple 'entry points'- to literature, to methods, to topics Part One, 'The Field and the Endeavor', frames the nature and conduct of research in computer science education. Part Two, 'Perspectives and Approaches', provides a number of grounded chapters on particular topics or themes, written by experts in each domain. These chapters cover the following topics: * design * novice misconceptions * programming environments for novices * algorithm visualisation * a schema theory view on learning to program * critical theory as a theoretical approach to computer science education research Juxtaposed and taken together, these chapters indicate just how varied the perspectives and research approaches can be. These chapters, too, act as entry points, with illustrations drawn from published work.

Fuel Injection Jeff Hartman 1992-12-31 Fuel Injection: Installation, Performance Tuning, Modifications Jeff HartmanAn easy-to-use, up-to-date guide to selecting, installing, troubleshooting, and modifying todays fuel injection systems, including EFI systems on engines with turbocharging and nitrous oxide setups. Hartman shows you how using a 7 Dodge Challenger, an XKE Jaguar, a 55 Chevy, a Cadillac, and even a GMC motorhome as project cars. Heres your chance to increase performance and decrease emissions. Includes everything from mild to wild - all street legal, plus F1 mods for the track. Includes lists of suppliers, reference information and glossary of terms. Sftbd., 8 1/4x 1 5-8, 16 pgs., 141 b&w diagrams & ill.

Professional Journalism M V Kamath 2009-11-01 There are not many books in India that can serve as a useful textbook to the students and guides to the practising journalist. It is this lacuna that M.V. Kamath, one of the most prominent Indian Journalists, has tried to fill. This is a book on Indian journalism for Indian journalists, citing examples of Indian writers, Kamath quotes profusely from the writings of Indian editors to illustrate his ideas which considerably adds to the relevance of his work.

Tensorflow in 1 Day: Make Your Own Neural Network Krishna Rungta 2018-09-05 Tensorflow is the most popular Deep Learning Library out there. It has fantastic graph computations feature which helps data scientist to visualize his designed neural network using TensorBoard. This Machine learning library supports both Convolution as well as Recurrent Neural network. It supports parallel processing on CPU as well as GPU. Prominent machine learning algorithms supported by TensorFlow are Deep Learning Classification, wipe & deep, Boston Tree amongst others. The book is very hands-on and gives you industry ready

deep learnings practices. Here is what is covered in the book

SAE Fastener Standards Manual 2005-01-01

Education in the People's Republic of China, Past and Present Franklin Parker 2017-12-12 The 3,053 entries in this work, first published in 1986, comprise the compliers' attempt at a comprehensive annotated bibliography of the most useful locatable books, monographs, pamphlets, regularly and occasionally issued serials, scholarly papers, and selected newspaper accounts dealing in a significant way with formal and informal, public and private education in the People's Republic of China before and since 1949.

Through-Life Management Great Britain. National Audit Office 2003 Developed under the Strategic Defence Review, and a key element in the Smart Acquisition reforms policy, the Through-Life Management approach to defence acquisition has been adopted by the Ministry of Defence in order to deliver a faster, and cheaper set of processes and systems for developing an efficient military capability. This report examines whether that capability has been delivered. Among a number of observations and recommendations, the NAO found that Through-Life had yet to become firmly established in the Department, and so yield its' benefits; that despite strong management support, no clear, consolidated strategy existed across the Department itself and that a plan had now been developed to push through the changes needed to implement the Through-Life Management approach more effectively in the Department.

Advanced Automotive Fault Diagnosis Tom Denton 2006-08-14 Diagnostics, or fault finding, is a fundamental part of an automotive technician's work, and as automotive systems become increasingly complex there is a greater need for good diagnostic skills. Advanced Automotive Fault Diagnosis is the only book to treat automotive diagnostics as a science rather than a check-list procedure. Each chapter includes basic principles and examples of a vehicle system followed by the appropriate diagnostic techniques, complete with useful diagrams, flow charts, case studies and self-assessment questions. The book will help new students develop diagnostic skills and help experienced technicians improve even further. This new edition is fully updated to the latest technological developments. Two new chapters have been added – On-board diagnostics and Oscilloscope diagnostics – and the coverage has been matched to the latest curricula of motor vehicle qualifications, including: IMI and C&G Technical Certificates and NVQs; Level 4 diagnostic units; BTEC National and Higher National qualifications from Edexcel; International Motor Vehicle qualifications such as C&G 3905; and ASE certification in the USA.

Data Science Vijay Kotu 2018-11-27 Learn the basics of Data Science through an easy to understand conceptual framework and immediately practice using RapidMiner platform. Whether you are brand new to data science or working on your tenth project, this book will show you how to analyze data, uncover hidden patterns and relationships to aid important decisions and predictions. Data Science has become an essential tool to extract value from data for any organization that collects, stores and processes data as part of its operations. This book is ideal for business users, data analysts, business analysts, engineers, and analytics professionals and for anyone who works with data. You'll be able to: Gain the necessary knowledge of different data science techniques to extract value from data. Master the concepts and inner workings of 30 commonly used powerful data science algorithms. Implement step-by-step data science process using using RapidMiner, an open source GUI based data science platform Data Science techniques covered: Exploratory data analysis, Visualization, Decision trees, Rule induction, k-nearest neighbors, Naïve Bayesian classifiers, Artificial neural networks, Deep learning, Support vector machines, Ensemble models, Random forests, Regression, Recommendation engines, Association analysis, K-Means and Density based clustering, Self organizing maps, Text mining, Time series forecasting, Anomaly detection, Feature selection and more... Contains fully updated content on data science, including tactics on how to mine business data for information Presents simple explanations for over twenty powerful data science techniques Enables the practical use of data science algorithms without the need for programming Demonstrates processes with practical use cases Introduces each algorithm or technique and explains the workings of a data science algorithm in plain language Describes the commonly used setup options for the open source tool RapidMiner

Networked RFID George Roussos 2008-10-17 This book introduces the technologies and techniques of large-scale RFID-enabled mobile computing systems. The discussion is set in the context of specific system case studies where RFID has been the core enabling technology in retail, metropolitan transportation, logistics and e-passport applications. RFID technology fundamentals are covered including operating principles, core system components and performance trade-offs involved in the selection of specific RFID platforms.

Optical Networking Best Practices Handbook John R. Vacca 2006-11-28 Optical Networking Best Practices Handbook presents optical networking in a very comprehensive way for nonengineers needing to understand the fundamentals of fiber, high-capacity, high-speed equipment and networks, and upcoming carrier services. The book provides a practical understanding of fiber optics as a physical medium, sorting out single-mode versus multi-mode and the crucial concept of Dense Wave-Division Multiplexing.

Jane's All the World's Aircraft 2011-2012 Paul Jackson 2011-05-01 This aviation reference provides exhaustive technical detail on over 1000 civil and military aircraft currently being produced or under development by over 560 companies. Complete with photographs and line drawings to aid recognition and comparison.

Machine Learning in Python: Hands on Machine Learning with Python Tools, Concepts and Techniques Bob Mather 2019-07-15 The ability to crunch data

effectively can propel your career or business to great heights. Machine Learning is the most effective data analysis tool. While it is a complex topic, it can be broken down into simpler steps, as show in this book. We are using Python, which is a great programming language for beginners.

Supercharging Windows Judd Robbins 1992 Provides detailed instructions and advice for troubleshooting and customizing the Windows computer system and its applications

Writing Erotica Edo Van Belkom 2001 Erotica appeals to the primal instincts and senses of human beings. Millions buy it. Whole publishing companies are devoted to it. But writing erotica takes special skill; a writer must balance the graphic and the subtle, know how many details are too many, and understand the pacing of an erotic story, from sensuous build-up to satisfying climax. Writing Erotica is packed with information for novice and professional writers alike. It also provides practical advice on starting and finishing your manuscript and selling your work in the competitive erotica marketplace.

Unmanned Aircraft Systems in the Cyber Domain Randall Nichols 2019-07-26 Unmanned Aircraft Systems are an integral part of the US national critical infrastructure. The authors have endeavored to bring a breadth and quality of information to the reader that is unparalleled in the unclassified sphere. This textbook will fully immerse and engage the reader / student in the cyber-security considerations of this rapidly emerging technology that we know as unmanned aircraft systems (UAS). The first edition topics covered National Airspace (NAS) policy issues, information security (INFOSEC), UAS vulnerabilities in key systems (Sense and Avoid / SCADA), navigation and collision avoidance systems, stealth design, intelligence, surveillance and reconnaissance (ISR) platforms; weapons systems security; electronic warfare considerations; data-links, jamming, operational vulnerabilities and still-emerging political scenarios that affect US military / commercial decisions.This second edition discusses state-of-the-art technology issues facing US UAS designers. It focuses on counter unmanned aircraft systems (C-UAS) - especially research designed to mitigate and terminate threats by SWARMS. Topics include high-altitude platforms (HAPS) for wireless communications; C-UAS and large scale threats; acoustic countermeasures against SWARMS and building an Identify Friend or Foe (IFF) acoustic library; updates to the legal / regulatory landscape; UAS proliferation along the Chinese New Silk Road Sea / Land routes; and ethics in this new age of autonomous systems and artificial intelligence (AI).

Dictionary of Jamaican English Frederic Gomes Cassidy 2002 The method and plan of this dictionary of Jamaican English are basically the same as those of the Oxford English Dictionary, but oral sources have been extensively tapped in addition to detailed coverage of literature published in or about Jamaica since 1655. It contains information about the Caribbean and its dialects, and about Creole languages and general linguistic processes. Entries give the pronunciation, part-of-speech and usage of labels, spelling variants, etymologies and dated citations, as well as definitions. Systematic indexing indicates the extent to which the lexis is shared with other Caribbean countries.

Artificial Intelligence, Blockchain, and Virtual Worlds Joanna Penn 2020-11-29 Artificial Intelligence is already embedded in much of our daily lives and it's increasingly moving into realms that impact authors and the publishing industry. We need to embrace the opportunities and engage in conversations around possible threats in order to reinvent our industry for a very different future. The pandemic of 2020 has accelerated converging technologies and changed human behavior across the globe to favor digital business models. In this book, I discuss current technological and societal trends and consider the opportunities for authors and the publishing industry over the next decade. Writing in the age of AI, including Natural Language Generation models like GPT-3 Copyright law, Blockchain for smart contracts, and micro-payments AI-assisted translation Voice technologies, streaming and subscription Virtual worlds and augmented reality Global, digital, mobile. A wave of new writers. It's time to change our business model. If we embrace this wave of converging technology, we can create abundance in our industry, enabling new forms of creativity, growing the market with new products and experiences, and expanding revenue for the entire supply chain. We are creators. We turn ideas in our heads into books in the physical realm. We can use these technologies to surf the wave of change and invent the decade ahead — together. I hope you will join me on the journey.

Windows 8 Quick Reference Guide (Cheat Sheet of Instructions, Tips and Shortcuts - Laminated Guide) Beezix 2012-11-19 4-page laminated quick reference guide showing step-by-step instructions and shortcuts for how to use Microsoft Windows 8. Includes touch interface. The following topics are covered: Getting Started: Starting Windows/Login; The Start Screen; Windows Store Apps and Desktop Apps; Accessing the Desktop; Starting a Desktop or Windows Store App; Accessories (Calculator, Notepad, etc.); Switching Between Apps and Desktop Windows - Using the Switch List; Closing a Windows Store App; Closing a Desktop Window or App; Windows Charms, Using the Share Charm; Searching; Working with Multiple Monitors; Opening Files, Folders and Libraries; Saving a Document; Using the Shortcut Menu; Showing Windows Store App Commands and Navigation. Organizing Tiles & Apps: Creating a Tile Group; Naming a Tile Group; Rearranging Start Screen Tiles; Adding an App Tile to the Start Screen; Creating Secondary Tiles; Always Show a Windows Store App (Snapping). Working on the Desktop: Pinning a Desktop App to the Taskbar; Using Taskbar Jump Lists (Recently Used Files, Pinned Files, Common Tasks);Pinning Files to Taskbar Jump Lists; Switching Between Windows Using the Taskbar; Resizing a Desktop Window; Moving a Desktop Window; Making a Desktop Window Large (Maximize); Hiding a Desktop Window (Minimize); Using the Notification Area (Printing, Security, Sound, etc.). File Management: Folders, Libraries & Favorites: Starting File Explorer; Working with the Ribbon; Navigation Pane, Preview Pane & Details Pane; Changing How Items are Displayed, Changing Views, Grouping & Sorting; Navigating Folders in File Explorer; Opening a Second Explorer Window; Creating a Folder; Renaming Files or Folders; Working

with Libraries; Selecting Multiple Items, Selecting with Checkboxes; Moving and Copying Files and Folders, Moving and Copying with Cut, Copy & Paste; Creating a Shortcut to a Document, Folder, or Other Item; Zipping Files or Folders; Deleting Files or Folders; Pinning to Start; Adding a Folder or Library to Favorites; Searching in File Explorer; Burning to a CD/DVD. Settings & Troubleshooting: Using the Settings Charm; Using the Control Panel; Setting up WiFi; Using Airplane Mode; What to Try if an App Freezes. Users & Security: Viewing a Password While Typing; Changing Users; Ending your Windows Session; Changing Login Password; Creating a Picture Password; Getting Help.

Principles of Data Mining and Knowledge Discovery Tapio Elomaa 2003-08-02 This book constitutes the refereed proceedings of the 6th European Conference on Principles of Data Mining and Knowledge Discovery, PKDD 2002, held in Helsinki, Finland in August 2002. The 39 revised full papers presented together with 4 invited contributions were carefully reviewed and selected from numerous submissions. Among the topics covered are kernel methods, probabilistic methods, association rule mining, rough sets, sampling algorithms, pattern discovery, web text mining, meta data clustering, rule induction, information extraction, dependency detection, rare class prediction, classifier systems, text classification, temporal sequence analysis, unsupervised learning, time series analysis, medical data mining, etc.

Digital Business Models Annabeth Aagaard 2018-12-04 This innovative edited collection explores digital business models (DBMs) in theory and practice to contribute to knowledge of how companies; organizations and networks can design, implement and apply DBMs. It views DBMs in a range of contexts and forms, which can be integrated in a number of ways, and aims to inspire and enable academics, students and practitioners to seize the opportunities posed by digital business models, technologies and platforms. One of the first and comprehensive contributions to the field of DBMs and digital business model innovations (DBMI), the authors discuss the opportunities, challenges, technologies, implementation and value creation, customer and data protection processes of DBMs in different contexts.

Knowledge Graphs Aidan Hogan 2021-11-08 This book provides a comprehensive and accessible introduction to knowledge graphs, which have recently garnered notable attention from both industry and academia. Knowledge graphs are founded on the principle of applying a graph-based abstraction to data, and are now broadly deployed in scenarios that require integrating and extracting value from multiple, diverse sources of data at large scale. The book defines knowledge graphs and provides a high-level overview of how they are used. It presents and contrasts popular graph models that are commonly used to represent data as graphs, and the languages by which they can be queried before describing how the resulting data graph can be enhanced with notions of schema, identity, and context. The book discusses how ontologies and rules can be used to encode knowledge as well as how inductive techniques—based on statistics, graph analytics, machine learning, etc.—can be used to encode and extract knowledge. It covers techniques for the creation, enrichment, assessment, and refinement of knowledge graphs and surveys recent open and enterprise knowledge graphs and the industries or applications within which they have been most widely adopted. The book closes by discussing the current limitations and future directions along which knowledge graphs are likely to evolve. This book is aimed at students, researchers, and practitioners who wish to learn more about knowledge graphs and how they facilitate extracting value from diverse data at large scale. To make the book accessible for newcomers, running examples and graphical notation are used throughout. Formal definitions and extensive references are also provided for those who opt to delve more deeply into specific topics.

Manned Submersibles Roswell Frank Busby 1976

The Motor Ship 2004

Condition Assessment Scheme International Maritime Organization 2005 The Condition Assessment Scheme (CAS) for oil tankers was adopted in 2001 and is applicable to all single-hull tankers of 15 years or older. Although the CAS does not specify structural standards in excess of the provisions of other IMO conventions, codes and recommendations, its requirements stipulate more stringent and transparent verification of the reported structural condition of the ship and that documentary and survey procedures have been properly carried out and completed. The Scheme requires that compliance with the CAS is assessed during the Enhanced Survey Program of Inspections concurrent with intermediate or renewal surveys currently required by resolution A.744(18), as amended.-- Publisher's description.

Advances in Marine Navigation and Safety of Sea Transportation Adam Weintrit 2019-06-07 This volume contains a selection of papers presented at the 13th International Conference on Marina Navigation and Safety of Sea Transport and is addressed to scientists and professionals in order to share their expert knowledge, experience and research results concerning all aspects of navigation, safety of navigation and sea transportation. The Thirteen Edition of the most innovative World conference on maritime transport research is designed to find solutions to challenges in waterborne transport, navigation and shipping, mobility of people and goods with respect to energy, infrastructure, environment, safety and security as well as to economic issues.

GMDSS Manual 2015

Korean Jaehoon Yeon 2019-06-25 Korean: A Comprehensive Grammar is a reference to Korean grammar, and presents a thorough overview of the language, concentrating on the real patterns of use in modern Korean. The book moves from the alphabet and pronunciation through morphology and word classes to a detailed analysis of sentence structures and semantic features such as aspect, tense, speech styles and negation. Updated and revised, this new edition includes lively descriptions of Korean grammar, taking into account the latest research in Korean linguistics. More lower-frequency grammar patterns have been added, and extra examples have been included throughout the text. The unrivalled depth and range of this updated edition of Korean: A Comprehensive Grammar makes it an essential reference source on the Korean language.

Defence reform Defence reform Steering Group 2011-06-27 The Defence Reform was launched in August 2010 as a fundamental review of how Defence is structured and managed. Many of the issues are not new and have been noted by similar reviews. The Steering Group believes an effective MOD is one which builds on the strengths of the individual Services and the Civil Service and does so within a single Defence framework that ensures the whole is more than the sum of its parts. A key driver for this review has been the Department's over-extended programme, to which the existing departmental management structure and management structure and behaviours contributed. Many of the Steering Group's proposals are designed to help prevent the Department from getting into such a poor financial position in the future and to put it in the position to make real savings. There are 53 recommendations the key ones of which are: to create a new and smaller Defence Board chaired by the Defence Secretary to strengthen top level decision making; to clarify the responsibilities of senior leaders, including the Permanent Secretary and the Chief of the Defence Staff; make the Head Office smaller and more strategic, to make high level balance of investment decisions, set strategic direction and a strong corporate framework; focus the Service Chiefs on running their Services and empower them to perform their role effectively with greater freedom to manage; strengthen financial and performance management throughout the Department to ensure future plans are affordable; create a 4 star led Joint Forces Command; create single, coherent Defence Infrastructure and Defence Business Services organisations; manage and use less senior military and civil personnel more effectively, people staying in post longer, more transparent and joint career management.

Brain-Computer Interface Research Christoph Guger 2017-09-06 This book presents compact and informative descriptions of the most promising new projects in brain-computer interface (BCI) research. As in earlier volumes in this series, the contributions come from many of the best-known groups in BCI research. Each of these chapters provides an overview of a project that was nominated for the most prestigious award in the BCI community: the Annual BCI Research Award. The book also contains an introduction and discussion with a review of major trends reflected in the awards. This volume also introduces a new type of contribution, namely a chapter"Trends in BCI Research" that summarizes a top trend in the BCI research community. This year's "Trends in BCI Research" addresses BCI technology to help patients with disorders of consciousness (DOC) and related conditions, including new work that goes beyond communication to diagnosis and even prediction.

Selected Stories D. H. Lawrence 2018-11-08 Lawrence was one of the great short story writers of the 20th century. This new collection of ten stories shows the variety of Lawrence's achievement. the works develop from early realism towards myth and fairy tale, murder and ghost stories.

308 Circuits Jan Buiting 2003 This is the ninth in the 300 series of circuit design books, again contains a wide range of circuits, tips and design ideas. The book has been divided into sections, making it easy to find related subjects in a single category. The book not only details DIY electronic circuits for home construction but also inspiring ideas for projects you may want to design from the ground up. Because software in general and microcontroller programming techniques in particular have become key aspects of modern electronics, a number of items in this book deal with these subjects only. Like its predecessors in the 300 series, "308 Circuits" covers the following disciplines and interest fields of modern electronics: test and measurement, radio and television, power supplies and battery chargers, general interest, computers and microprocessors, circuit ideas and audio and hi-fi.

Global Mobile Satellite Communications Stojce Dimov Ilcev 2005-12-05 Global mobile satellite communications (GMSC) are specific satellite communication systems for maritime, land and aeronautical applications. It enables connections between moving objects such as ships, vehicles and aircrafts, and telecommunications subscribers through the medium of communications satellites, ground earth stations, PTT or other landline telecommunications providers. Mobile satellite communications and technology have been in use for over two decades. Its initial application is aimed at the maritime market for commercial and distress applications. In recent years, new developments and initiatives have resulted in land and aeronautical applications and the introduction of new satellite constellations in non-geostationary orbits such as Little and Big LEO configurations and hybrid satellite constellations as Ellipso Borealis and Concordia system. This book is important for modern shipping, truck, train and aeronautical societies because GMSC in the present millennium provides more effective business and trade, with emphasis on safety and commercial communications. Global Mobile Satellite Communications is written to make bridges between potential readers and current GMSC trends, mobile system concepts and network architecture using a simple mode of style with understandable technical information, characteristics, graphicons, illustrations and mathematics equations. Global Mobile Satellite Communications represents telecommunications technique and technology, which can be useful for all technical staff on vessels at sea and rivers, on all types of land vehicles, on planes, on off shore constructions and for everyone possessing satellite communications handset phones.

Solid Freeform Fabrication J. J. Beaman 2014-09-01