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Fans will get bent out of shape if they miss the first book to cover circuit-bending-"bending," for short-the method by which an electronic toy or a device such as a keyboard is short-circuited and modified to create an entirely different sound Written by the inventor of the technology, this book covers the tools of the trade, shows how to build a bending workshop, and reveals secrets that will have readers of all levels making sweet music in no time Readers learn basic bends, body contacts, and other bending skills, as well as ways to create bent instruments from a variety of popular toys and electronic devices Features some of the author's own unique creations

Finding ways to improve margins can be the difference between organizations that thrive and those that simply survive during times of economic uncertainty. Describing why cost reductions can be just as powerful as increases in revenue, Total Quality Management for Project Management explains how to integrate time-tested project management tools with the power of Total Quality Management (TQM) to achieve significant cost reductions. Detailing the ins and outs of applying project management methods to TQM activities, the book provides the understanding you'll need to enhance the effectiveness of your TQM work. To clear up any confusion about what a true quality improvement is, it includes sections that cover the fundamentals of total quality management and defines the terms used throughout the text. The book examines profitability as it relates to product cost—including the initial work determining investment paybacks. It compares TQM/PM versus Six Sigma and illustrates the use of scrum in the context of TQM for improving quality initiatives. Complete with real-world success stories that facilitate comprehension, it illustrates methods that can help to minimize distractions and keep your team focused. The authors consider the full range of quality improvement tools as applied within the framework of project management. For the section of the book on the application of TQM to scrum, they demonstrate how these analytical methods can be used on the data produced within a scrum project and made into actionable information. Filled with innovative methods for improving costs, the text arms you with the tools to determine the approaches best suited to your corporate culture and capabilities.

This open access book focuses on imaging of the musculoskeletal diseases. Over the last few years, there have been considerable advances in this area, driven by clinical as well as technological developments. The authors are all internationally renowned experts in their field. They are also excellent

teachers, and provide didactically outstanding chapters. The book is disease-oriented and covers all relevant imaging modalities, with particular emphasis on magnetic resonance imaging. Important aspects of pediatric imaging are also included. IDKD books are completely re-written every four years. As a result, they offer a comprehensive review of the state of the art in imaging. The book is clearly structured with learning objectives, abstracts, subheadings, tables and take-home points, supported by design elements to help readers easily navigate through the text. As an IDKD book, it is particularly valuable for general radiologists, radiology residents, and interventional radiologists who want to update their diagnostic knowledge, and for clinicians interested in imaging as it relates to their specialty.

CSA Book Description This CSA book has been written to include over 120 common symptoms that patients can present with and may come up in your RCGP CSA exams. For each symptom a comprehensive consultation framework has been included to guide you through the best approach in dealing with the complaint. This CSA Book This CSA book guides the GP registrar to ask relevant questions within the consultations such as eliciting relevant past medical history, social history etc. The CSA framework then guides you to which examinations would be relevant and what investigations should be requested in your CSA exam. The final part of the chapter then advises about possible differential diagnoses and evidence based ways of management these. We have also written in this CSA book clear explanation briefs that you can use to explain the pertinent diagnoses to the patient in a jargon free manner. This CSA book has been specifically written to save you hours of time researching before your examinations and hopefully will become your core companion to ease you through the CSA exams and into your future as a fully fledged General Practitioner.

The companion book to COURSERA®'s wildly popular massive open online course "Learning How to Learn" Whether you are a student struggling to fulfill a math or science requirement, or you are embarking on a career change that requires a new skill set, A Mind for Numbers offers the tools you need to get a better grasp of that intimidating material. Engineering professor Barbara Oakley knows firsthand how it feels to struggle with math. She flunked her way through high school math and science courses, before enlisting in the army immediately after graduation. When she saw how her lack of mathematical and technical savvy severely limited her options—both to rise in the military and to explore other careers—she returned to school with a newfound determination to re-tool her brain to master the very subjects that had given her so much trouble throughout her entire life.

In *A Mind for Numbers*, Dr. Oakley lets us in on the secrets to learning effectively—secrets that even dedicated and successful students wish they'd known earlier. Contrary to popular belief, math requires creative, as well as analytical, thinking. Most people think that there's only one way to do a problem, when in actuality, there are often a number of different solutions—you just need the creativity to see them. For example, there are more than three hundred different known proofs of the Pythagorean Theorem. In short, studying a problem in a laser-focused way until you reach a solution is not an effective way to learn. Rather, it involves taking the time to step away from a problem and allow the more relaxed and creative part of the brain to take over. The learning strategies in this book apply not only to math and science, but to any subject in which we struggle. We all have what it takes to excel in areas that don't seem to come naturally to us at first, and learning them does not have to be as painful as we might think.

The book discusses the discipline of Software Architecture using real-world case studies and poses pertinent questions that arouse objective thinking. With the help of case studies and in-depth analyses, it delves into the core issues and challenges of software architecture.

In a refutation of conventional economic theories, the author outlines the new economic order, where corporations profit by providing products and services that did not exist before

Mastering interoperability in a computing environment consisting of different operating systems and hardware architectures is a key requirement which faces system engineers building distributed information systems. Distributed applications are a necessity in most central application sectors of the contemporary computerized society, for instance, in office automation, banking, manufacturing, telecommunication and transportation. This book focuses on the techniques available or under development, with the goal of easing the burden of constructing reliable and maintainable interoperable information systems. The topics covered in this book include: Management of distributed systems; Frameworks and construction tools; Open architectures and interoperability techniques; Experience with platforms like CORBA and RMI; Language interoperability (e.g. Java); Agents and mobility; Quality of service and fault tolerance; Workflow and object modelling issues; and Electronic commerce. The book contains the proceedings of the International Working Conference on Distributed Applications and Interoperable Systems II (DAIS'99), which was held June 28-July 1, 1999 in Helsinki, Finland. It was sponsored by the International Federation of Information Processing (IFIP). The conference program presents the state of the art in research concerning distributed and interoperable systems. This is a topical research area where much activity is currently in progress. Interesting new aspects and innovative contributions are still arising regularly. The DAIS series of conferences is one of the main international forums where these important findings are reported.

Principles of Membrane Bioreactors for Wastewater Treatment covers the basic principles of membrane bioreactor (MBR) technology, including biological treatment, membrane filtration, and MBR applications. The book discusses concrete principles, appropriate design, and operational aspects. It covers a wide variety of MBR topics, including filtration theory, membrane materials and geometry, fouling phenomena and properties, and strategies for minimizing fouling. Also covered are the practical aspects such as operation and maintenance. Case studies and examples in the book help readers understand the basic concepts and principles clearly, while problems presented help advance relevant theories more deeply. Readers will find this book a helpful resource to understand the state of

the art in MBR technology.

This new work on energy and environmental modeling describes a broad variety of modeling methodologies, embodied in models of varying scopes and philosophies. Examples range from top-down integrated assessment models to bottom-up partial equilibrium models, to hybrid models.

"The Textbook of Clinical Sexual Medicine utilizes the biopsychosocial approach to inform physicians, practitioners, residents, trainees, and students about the latest science has to offer today for the evaluation and treatment of sexual dysfunctions especially the utilization of the full armamentarium of assessment methods and treatment interventions in order to restore of sexual health and enhance quality of life." Louis Ignarro, Ph.D., Nobel Laureate This textbook is a comprehensive resource covering sexual disorders in depth, from etiology, pathophysiology, phenomenology, treatment, to prognosis. The book highlights aspects the biological and psychosocial factors predisposing, precipitating, and perpetuating sexual dysfunction, and the importance of integrating biological and psychosocial treatments. Specialized chapters cover specific common medical complaints, including erectile, ejaculatory, and orgasmic disorders in the male; desire, arousal and orgasmic disorders in the female; and an integrated approach to the couple. With its focus on educational tools including over 100 figures, easy-to-use DSM-5 criteria table, and quick-guide appendices, this textbook is specially designed to educate readers on the psychiatric evaluation, treatment, and management of a wide range of sexual disorders. The Textbook of Clinical Sexual Medicine is a vital resource for medical students, residents, fellows, graduate students, psychiatrists, psychologists, women's health specialists, urologists, endocrinologists, general practitioners, social workers, and all medical professionals and trainees working with patients suffering from sexual disorders.

Amongst medical students, clinical OSCEs in specialty subjects are notorious for being the most difficult to prepare for due to the paucity of any books dedicated to the subject. For this very reason, we have written *The Easy Guide to OSCEs for Specialties* to fill this void and ease the already burdensome workload of medical students. It has been compiled by recently qualified doctors who have experienced the new OSCE system first hand. The book has been written in a fresh style covering over 80 OSCE examination stations in a wide range of different subjects. This book is unique, covering medi-

This is the most comprehensive resource for candidates sitting the challenging final Clinical Skills Assessment exam, offering a complete curriculum guide as well as 110 role plays that can be removed and practised in pairs. The guidance is seamlessly aligned to the RCGP syllabus, fully up-to-date and referenced with the latest guidelines, with detailed 'model' answers to each case. Offering a new, straightforward consultation model highly suited to the requirements of the exam, the book provides: a realistic amount of information for both 'doctor' and 'patient' to closely replicate the exam the answers! Each case includes a fully worked up 'Model Consultation' summaries of guidelines and tips from the authors' recent experience of the CSA exam for all 110 cases an easy way to mark each colleague's role play attempts, with tick boxes on the Model Consultation and a universally applicable marking scheme card a colour-coded curriculum for ease of reference the only CSA casebook and revision guide providing information and answers across the curriculum. The Complete CSA Casebook is an excellent resource to prepare for a number of international examinations, including: Clinical Skills Assessment (CSA) for the RCGP (Royal College of General Practitioners). Simulated

Surgery, Learning Needs Assessment, for the International GP Recruitment (IGPR) Scheme, GP Returner Scheme and GP Induction Scheme. Objective Structured Clinical Examination (OSCE) for the RACGP (Royal Australian College of General Practitioners) Fellowship. GPEP1 Clinical Examination for the RNZCGP (Royal New Zealand college of General Practitioners). The Certification Examination in Family Medicine simulated office orals (SOOs) for The College of Family Physicians of Canada." The Family Medicine Certification Examination for the ABFM (American Board of Family Medicine). and will remain an invaluable resource for best general practice after qualification.

Written by experienced MRCOG question setters and course convenors, this text contains 500 practice questions with explanations and key references.

This book is a concise revision guide to the core basic sciences - anatomy, physiology and pathology - which comprise the essential knowledge required by the trainee entering the specialty of surgery. It has been written in a style to facilitate easy learning of the essential facts, with indications of both their clinical relevance and importance. This book concentrates on those topics which tend to be recurring examination themes for initial surgical training. It will be an invaluable resource for the basic surgical trainee studying for the Intercollegiate MRCS examination, as well as proving useful for those in higher surgical training and for the surgically inclined, well-motivated student. The book covers in one volume all the essentials of the basic sciences - anatomy, physiology and pathology - to aid the candidate for the MRCS examination. In covering the applied basic science the books explains the application and clinical relevance of the three sciences The text is written in an appropriate 'bullet-point' style to allow easy reading and rapid exam preparation The contents concentrate on the recurring common themes of the examination, thus helping direct appropriate learning and focussing on the specific important areas of knowledge The book is illustrated with line drawings which are clearly annotated to aid learning. In this Second Edition, chapters have been updated and sections expanded to cover topics which are particularly relevant to examinations. The microbiology chapter has been rewritten, and the section on skin healing has also been extensively rewritten to include a section on burns, skin grafting and the anatomy of flaps. Each chapter has new OSCE scenario questions added to bring together the basic science and its clinical application in OSCE examinations.

Presented in alphabetical order for quick reference, this is a comprehensive guide to the common symptoms encountered in primary care. Reflecting the way patients actually present symptoms, it comprises overviews, differential diagnosis, top tips and "red flags" (cautions and warnings).

The two-volume set LNBI 11465 and LNBI 11466 constitutes the proceedings of the 7th International Work-Conference on Bioinformatics and Biomedical Engineering, IWBBIO 2019, held in Granada, Spain, in May 2019. The total of 97 papers presented in the proceedings, was carefully reviewed and selected from 301 submissions. The papers are organized in topical sections as follows: Part I: High-throughput genomics: bioinformatics tools and medical applications; omics data acquisition, processing, and analysis; bioinformatics approaches for analyzing cancer sequencing data; next generation sequencing and sequence analysis; structural bioinformatics and function; telemedicine for smart homes and remote monitoring; clustering and analysis of biological sequences with optimization algorithms; and computational approaches for drug repurposing and personalized medicine. Part II: Bioinformatics for healthcare and diseases; computational genomics/proteomics; computatio-

nal systems for modelling biological processes; biomedical engineering; biomedical image analysis; and biomedicine and e-health.

This book serves as a practical guide for the use of carbon ions in cancer radiotherapy. On the basis of clinical experience with more than 7,000 patients with various types of tumors treated over a period of nearly 20 years at the National Institute of Radiological Sciences, step-by-step procedures and technological development of this modality are highlighted. The book is divided into two sections, the first covering the underlying principles of physics and biology, and the second section is a systematic review by tumor site, concentrating on the role of therapeutic techniques and the pitfalls in treatment planning. Readers will learn of the superior outcomes obtained with carbon-ion therapy for various types of tumors in terms of local control and toxicities. It is essential to understand that the carbon-ion beam is like a two-edged sword: unless it is used properly, it can increase the risk of severe injury to critical organs. In early series of dose-escalation studies, some patients experienced serious adverse effects such as skin ulcers, pneumonitis, intestinal ulcers, and bone necrosis, for which salvage surgery or hospitalization was required. To preclude such detrimental results, the adequacy of therapeutic techniques and dose fractionations was carefully examined in each case. In this way, significant improvements in treatment results have been achieved and major toxicities are no longer observed. With that knowledge, experts in relevant fields expand upon techniques for treatment delivery at each anatomical site, covering indications and optimal treatment planning. With its practical focus, this book will benefit radiation oncologists, medical physicists, medical dosimetrists, radiation therapists, and senior nurses whose work involves radiation therapy, as well as medical oncologists and others who are interested in radiation therapy.

Implantable sensing, whether used for transient or long-term monitoring of in vivo physiological, bio-electrical, bio-chemical and metabolic changes, is a rapidly advancing field of research and development. Underpinned by increasingly small, smart and energy efficient designs, they become an integral part of surgical prostheses or implants for both acute and chronic conditions, supporting optimised, context aware sensing, feedback, or stimulation with due consideration of system level impact. From sensor design, fabrication, on-node processing with application specific integrated circuits, to power optimisation, wireless data paths and security, this book provides a detailed explanation of both the theories and practical considerations of developing novel implantable sensors. Other topics covered by the book include sensor embodiment and flexible electronics, implantable optical sensors and power harvesting. Implantable Sensors and Systems - from Theory to Practice is an important reference for those working in the field of medical devices. The structure of the book is carefully prepared so that it can also be used as an introductory reference for those about to enter into this exciting research and developing field.

Machine learning and nonparametric function estimation procedures can be effectively used in forecasting. One important and current application is used to make forecasts of "future dangerousness" to inform criminal justice decision. Examples include the decision to release an individual on parole, determination of the parole conditions, bail recommendations, and sentencing. Since the 1920s, "risk assessments" of various kinds have been used in parole hearings, but the current availability of large administrative data bases, inexpensive computing power, and developments in statistics and computer science have increased their accuracy and applicability. In this book, these developments

are considered with particular emphasis on the statistical and computer science tools, under the rubric of supervised learning, that can dramatically improve these kinds of forecasts in criminal justice settings. The intended audience is researchers in the social sciences and data analysts in criminal justice agencies.

Tasks for Part 3 MRCOG Clinical Assessment is a key resource for the new Part 3 MRCOG examination. Containing over 75 clinical tasks mapped to the Royal College of Obstetrics and Gynaecology curriculum, this practical guide helps candidates' apply core knowledge, skills and attitudes relevant to the day-to-day clinical practice. Split into 20 chapters, this resource offers wide curriculum coverage based on the principles of good medical practice providing a thorough assessment of the reader's knowledge. The number of tasks provided for different areas of study reflects the depth of knowledge and breadth needed for the exam so candidates can ensure a suitable amount of time is dedicated to key scenarios they may encounter. Each task provides detailed instructions to the candidate, role player and the examiner with detailed explanations and further reading. Written by experts in the various fields, and edited by experienced examiners, Tasks for Part 3 MRCOG Clinical Assessment is essential reading for candidates preparing for the MRCOG Part 3 exam worldwide.

From reviews: '...this is an excellent book which I would unreservedly recommend to all CSA candidates. Its razor-sharp focus, user-friendly layout, emphasis on the RCGP curriculum and marking criteria make it a priceless resource for CSA candidates.' Dr Hamed Khan, GP Magazine, May 2011. CSA Revision Notes for the MRCGP is divided into medical subject areas and each section works through the personal, data gathering, diagnostic and clinical management skills required to pass the CSA exam. Each section finishes with role play scenarios so you can test your abilities with a colleague. The book is an essential revision source for anyone preparing for the CSA exam.

Call it a remnant of our Victorian past, but sexual concerns lag behind other aspects of health, both in the training of physicians and therapists and in the way they impart this knowledge to clients. But as sexuality gains recognition as crucial to one's quality of life, evidence-based methods of understanding and discussing sex are imperative—and not only in treating pathology. Sexual Medicine in Clinical Practice provides framework, rationale, and strategies for both approaching sexual problems and addressing patients' questions about sexual health, behavior, and relationships. Analyzing sexuality along three dimensions—attachment, reproduction, and desire—this concise manual offers a biopsychosocial lifespan model readily translatable into clinical work. This “syndyastic” framework integrates attachment and relational theory to reinforce the bond between intimacy and connectedness, and models nonjudgmental approaches to disorders of sexual function, maturity, preference, and behavior. The authors' salutogenic rather than pathogenic focus lets clients become major players in their own healing, and the therapist or doctor serve as expert and guide. Among the topics covered: The communicative function of sexuality. The spectrum of sexual disorders. Principles of diagnostics in sexual medicine. Disease-centered versus client-centered aspects of sexual therapy. Therapeutic approaches for sexual traumatization. New challenges, including preventing child sexual abuse and online sex crime. Plus case studies, interdisciplinary references, and ethical issues. A timely, perspective- and practice-altering volume, Sexual Medicine in Clinical Practice is essential reading for family and primary care physicians, family and sex therapists, health psychologists, and psychiatrists.

This open access book provides a view into the state-of-the-art research on aviation noise and related annoyance. The book will primarily focus on the achievements of the ANIMA project (Aviation Noise Impact Management through Novel Approaches), but not exclusively. The content has a broader theme in order to encompass. regulation issues, the ICAO (International Civil Aviation Organization) balanced approach, progresses made on technologies and reduction of noise at source, impact of possible future civil supersonic aircraft, land-use planning issues, as well as the core topics of the ANIMA project, i.e. impact on human beings, annoyance, quality of life, health and findings of the project in this respect. This book differs from traditional research programmes on aviation noise as the authors endeavour, not to lower noise at source, but to reduce the annoyance. This book examines these non-acoustic factors in an effort to help those most affected by aviation noise - communities living close to airports, and also help airport managers, policy-makers, local authorities and researchers to deal with this issue holistically. The book concludes with some recommendations for EU, national and local policy-makers, airport and aviation authorities, and more broadly a scientifically literate audience. These recommendations may help to identify gaps for progress in terms of research but also genuine implementation actions for political and regulatory authorities.

Projects continue to grow larger, increasingly strategic, and more complex, with greater collaboration, instant feedback, specialization, and an ever-expanding list of stakeholders. Now more than ever, effective project management is critical for the success of any deliverable, and the demand for qualified Project Managers has leapt into nearly all sectors. Project Management provides a robust grounding in essentials of the field using a managerial approach to both fundamental concepts and real-world practice. Designed for business students, this text follows the project life cycle from beginning to end to demonstrate what successful project management looks like on the ground. Expert discussion details specific techniques and applications, while guiding students through the diverse skill set required to select, initiate, execute, and evaluate today's projects. Insightful coverage of change management provides clear guidance on handling the organizational, interpersonal, economic, and technical glitches that can derail any project, while in-depth cases and real-world examples illustrate essential concepts in action.

This two-volume book provides an insight into the 10th International Conference on Soft Computing for Problem Solving (SocProS 2020). This international conference is a joint technical collaboration of Soft Computing Research Society and Indian Institute of Technology Indore. The book presents the latest achievements and innovations in the interdisciplinary areas of soft computing. It brings together the researchers, engineers and practitioners to discuss thought-provoking developments and challenges, in order to select potential future directions. It covers original research papers in the areas including but not limited to algorithms (artificial immune system, artificial neural network, genetic algorithm, genetic programming and particle swarm optimization) and applications (control systems, data mining and clustering, finance, weather forecasting, game theory, business and forecasting applications). The book will be beneficial for young as well as experienced researchers dealing across complex and intricate real-world problems for which finding a solution by traditional methods is a difficult task.

This book is a printed edition of the Special Issue "Systems Education for a Sustainable Planet" that was published in Systems

We are to believe there was a time when *The Birmingham Quean* was just a poem: a mock-epic burlesque in which a fake pound coin told how she was won in a game of darts by a drag-queen called Britannia Spears. It parodied Pope's *The Rape of the Lock*, Byron's *Don Juan* and an anonymous eighteenth century novel, *The Birmingham Counterfeit*. The transformation of this bit of picaresque doggerel into the sprawling work barely contained by this cover is the central mystery of a ludic novel. It mirrors the unlikely story of a dirty little settlement of nailers and cutlers becoming the principle city of the Industrial Revolution by flooding the Restoration economy with counterfeit coins. What remains is an absurd scholarly edition of a poem recast as a futuristic dystopia in which nothing is authentic. It is also the tale of an impossible love affair that uncovers an impossible text by an impossible author. It is as strange, ironic, sombre, flashy and anarchic as the city to which it owes its existence.

The 15 papers in this collection present a Canadian perspective on providing services to children with disabilities in regular classes and schools. The papers are grouped into three sections: Philosophical, Legal and Historical Overview; Parent and Self-Advocacy; and Innovations and Practical Applications. Chapters have the following titles and authors: "Changing Special Education Practice: Law, Advocacy and Innovation" (Gordon L. Porter and Diane Richler); "Inclusive Education as Social Policy" (Diane Richler); "Education: A System of Social Disempowerment" (Marcia H. Rioux); "Access to Equality in Education: The Power of Parents" (S. Dulcie McCallum); "Principles of Change: A Parent's Perspective on the Education System" (David Jory); "The Road to Inclusion: One Family's Story" (A-lene Steinbach); "A Will To Learn: The Experiences of a Self-Advocate in the Education System" (Marcia Marcaccio); "The Methods and Resource Teacher: A Collaborative Consultant Model" (Gordon L. Porter); "Leading the Way: The Role of School Administrators in Integration" (Darlene E. Perner); "The Role of the Classroom Teacher" (Margaret Murray); "Implementing Multi-Level Instruction: Strategies for Classroom Teachers" (Jean Collicott); "Problem Solving Teams: A Thirty-Minute Peer-Helping Model" (Gordon L. Porter et al.); "Student to Student: Curriculum and the Development of Peer Relationships" (Julie Stone and Charlotte Campbell); "Beyond Behaviour: A Case of Social Intervention Strategies for a Student with Challenging Behaviours" (Brian Kelly and Jeff den Otter); "On Campus: Integrated Post-Secondary Education" (Melanie Panitch). (80 references) (DB)

It is widely acknowledged that traditional Project Management techniques are no longer sufficient, as projects become more complex and client's demand reduced timescales. Problems that arise include inadequate planning and risk analysis, ineffective project monitoring and control, and uninformed post-mortem analysis. Effective modelling techniques, which capture the complexities of such projects, are therefore necessary for adequate project management. This book looks at those issues, describes some modelling techniques, then discusses their merits and possible synthesis. * This is the only project management book that deals with Project Modelling. * Features case studies throughout. * Places the various approaches to Project Modelling within a coherent framework, and gives an objective overview.

This two-volume set (CCIS 955 and CCIS 956) constitutes the refereed proceedings of the Second International Conference on Advanced Informatics for Computing Research, ICAICR 2018, held in Shimla, India, in July 2018. The 122 revised full papers presented were carefully reviewed and selected from 427 submissions. The papers are organized in topical sections on computing methodologies;

hardware; information systems; networks; security and privacy; computing methodologies.

Over the last few decades, both the aeronautics and space disciplines have greatly influenced advances in controls, sensors, data fusion and navigation. Many of those achievements that made the word "aerospace" synonymous with "high-tech" were enabled by innovations in guidance, navigation and control. Europe has seen a strong trans-national consolidation process in aerospace over the last few decades. Most of the visible products, like commercial aircraft, fighters, helicopters, satellites, launchers or missiles, are not made by a single country - they are the fruits of cooperation. No European country by itself hosts a specialized guidance, navigation and controls community large enough to cover the whole spectrum of disciplines. However, on a European scale, mutual exchange of ideas, concepts and solutions is enriching for all. The 1st CEAS Specialist Conference on Guidance, Navigation and Control is an attempt to bring this community together. This book is a selection of papers presented at the conference. All submitted papers have gone through a formal review process in compliance with good journal practices. The best papers have been recommended by the reviewers to be published in this book.

Autonomous unmanned air vehicles (UAVs) are critical to current and future military, civil, and commercial operations. Despite their importance, no previous textbook has accessibly introduced UAVs to students in the engineering, computer, and science disciplines--until now. *Small Unmanned Aircraft* provides a concise but comprehensive description of the key concepts and technologies underlying the dynamics, control, and guidance of fixed-wing unmanned aircraft, and enables all students with an introductory-level background in controls or robotics to enter this exciting and important area. The authors explore the essential underlying physics and sensors of UAV problems, including low-level autopilot for stability and higher-level autopilot functions of path planning. The textbook leads the student from rigid-body dynamics through aerodynamics, stability augmentation, and state estimation using onboard sensors, to maneuvering through obstacles. To facilitate understanding, the authors have replaced traditional homework assignments with a simulation project using the MATLAB/Simulink environment. Students begin by modeling rigid-body dynamics, then add aerodynamics and sensor models. They develop low-level autopilot code, extended Kalman filters for state estimation, path-following routines, and high-level path-planning algorithms. The final chapter of the book focuses on UAV guidance using machine vision. Designed for advanced undergraduate or graduate students in engineering or the sciences, this book offers a bridge to the aerodynamics and control of UAV flight.

This lively and engaging book explains the things you have to know in order to read empirical papers in the social and health sciences, as well as the techniques you need to build statistical models of your own. The discussion in the book is organized around published studies, as are many of the exercises. Relevant journal articles are reprinted at the back of the book. Freedman makes a thorough appraisal of the statistical methods in these papers and in a variety of other examples. He illustrates the principles of modelling, and the pitfalls. The discussion shows you how to think about the critical issues - including the connection (or lack of it) between the statistical models and the real phenomena. The book is written for advanced undergraduates and beginning graduate students in statistics, as well as students and professionals in the social and health sciences.

Updated in its 3rd edition, *Basic Methods of Policy Analysis and Planning* presents quickly applied

methods for analyzing and resolving planning and policy issues at state, regional, and urban levels. Divided into two parts, *Methods* which presents quick methods in nine chapters and is organized around the steps in the policy analysis process, and *Cases* which presents seven policy cases, ranging in degree of complexity, the text provides readers with the resources they need for effective policy planning and analysis. Quantitative and qualitative methods are systematically combined to address policy dilemmas and urban planning problems. Readers and analysts utilizing this text gain comprehensive skills and background needed to impact public policy.

This volume highlights the latest advances, innovations, and applications in the field of asphalt pavement technology, as presented by leading international researchers and engineers at the 5th International Symposium on Asphalt Pavements & Environment (ISAP 2019 APE Symposium), held in Padua, Italy on September 11-13, 2019. It covers a diverse range of topics concerning materials and technologies for asphalt pavements, designed for sustainability and environmental compatibility: sustainable pavement materials, marginal materials for asphalt pavements, pavement structures, testing methods and performance, maintenance and management methods, urban heat island mitigation,

energy harvesting, and Life Cycle Assessment. The contributions, which were selected by means of a rigorous international peer-review process, present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists.

This book features a collection of high-quality, peer-reviewed papers presented at the Third International Conference on Intelligent Computing and Communication (ICICC 2019) held at the School of Engineering, Dayananda Sagar University, Bengaluru, India, on 7 - 8 June 2019. Discussing advanced and multi-disciplinary research regarding the design of smart computing and informatics, it focuses on innovation paradigms in system knowledge, intelligence and sustainability that can be applied to provide practical solutions to a number of problems in society, the environment and industry. Further, the book also addresses the deployment of emerging computational and knowledge transfer approaches, optimizing solutions in various disciplines of science, technology and health-care.

This will be the only book on planetary rover development covering all aspects relevant to the design of systems