

Faculty of Engineering

A Message from the Dean

This Handbook describes the many undergraduate programs available in the Faculty of Engineering at UNSW. There is a very wide choice of programs, plans and electives and we therefore suggest you spend some time reading the Handbook carefully.

Whatever program you consider, it will be managed by one of our ten schools. Each school will have an advisor who can help you plan your program.

In addition to the individual programs you can broaden your University experience by taking one of the wide range of combined programs which combine the BE with BSc, BA, LLB and BCom degrees. A Master of Biomedical Engineering may be studied concurrently with several of the BE programs.

The Faculty of Engineering is dedicated to scholarship and research and to the facilitation of student learning. The academic staff are engaged in research and engineering practice, most of which is in collaboration with industry. This engagement with the frontiers of engineering and the related sciences ensures that students are familiar with the latest developments. In later years many students are able to participate in the work of the research teams in the Faculty.

The Faculty is a major part of the international dimension of UNSW, we welcome many international students and also encourage local students to take part of their program at an overseas university. We have strong links with major research universities throughout the world.

Students are encouraged to play an active role in all the University has to offer. There are many student led projects and other activities which can enhance your experience as a student at UNSW.

Brendon Parker

Dean

Faculty of Engineering

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Unsw Handbook Software Engineering

**Cathryn Costello,Michelle Foster,Jane
McAdam**



Unsw Handbook Software Engineering

The Second World Ocean Assessment United Nations Publications,2021-09-22 In its resolutions 57 141 and 58 240 the General Assembly decided to establish a regular process under the United Nations for global reporting and assessment of the state of the marine environment including socioeconomic aspects both current and foreseeable building on existing regional assessments In its resolution 71 257 the Assembly recalled that the scope of the first cycle of the Regular Process focused on establishing a baseline and decided that the scope of the second cycle would extend to evaluating trends and identifying gaps The programme of work for the period 2017 2020 of the second cycle of the Regular Process includes the preparation by the Group of Experts of the Regular Process for Global Reporting and Assessment of the State of the Marine Environment including Socioeconomic Aspects of the second World Ocean Assessment building on the baselines established by the First Global Integrated Marine Assessment first World Ocean Assessment In its resolution 72 73 the Assembly decided that the Group of Experts should proceed on the basis of a single comprehensive assessment The present document was prepared by the Group of Experts in accordance with those decisions Summary *Computer Science Handbook* Allen B.

Tucker,2004-06-28 When you think about how far and fast computer science has progressed in recent years it s not hard to conclude that a seven year old handbook may fall a little short of the kind of reference today s computer scientists software engineers and IT professionals need With a broadened scope more emphasis on applied computing and more than 70 chap

Network Security Technologies: Design and Applications Amine, Abdelmalek,2013-11-30 Recent advances in technologies have created a need for solving security problems in a systematic way With this in mind network security technologies have been produced in order to ensure the security of software and communication functionalities at basic enhanced and architectural levels *Network Security Technologies Design and Applications* presents theoretical frameworks and the latest research findings in network security technologies while analyzing malicious threats which can compromise network integrity This book is an essential tool for researchers and professionals interested in improving their understanding of the strategic role of trust at different levels of information and knowledge society

Architecture for Blockchain Applications Xiwei Xu,Ingo Weber,Mark Staples,2019-03-05 This book addresses what software architects and developers need to know in order to build applications based on blockchain technology by offering an architectural view of software systems that make beneficial use of blockchains It provides guidance on assessing the suitability of blockchain on the roles blockchain can play in an architecture on designing blockchain applications and on assessing different architecture designs and tradeoffs It also serves as a reference on blockchain design patterns and design analysis and refers to practical examples of blockchain based applications The book is divided into four parts Part I provides a general introduction to the topic and to existing blockchain platforms including Bitcoin Ethereum and Hyperledger Fabric and offers examples of blockchain based applications Part II

focuses on the functional aspects of software architecture describing the main roles blockchain can play in an architecture as well as its potential suitability and design process It includes a catalogue of 15 design patterns and details how to use model driven engineering to build blockchain based applications Part III covers the non functional aspects of blockchain applications which are cross cutting concerns including cost performance security and availability Part IV then presents three detailed real world use cases offering additional insights from a practical perspective An epilogue summarizes the book and speculates on the role blockchain and its applications can play in the future This book focusses on the bigger picture for blockchain covering the concepts and technical considerations in the design of blockchain based applications The use of mathematical formulas is limited to where they are critical This book is primarily intended for developers software architects and chief information officers who need to understand the basic technology tools and methodologies to build blockchain applications It also provides students and researchers new to this field an introduction to this hot topic

Handbook on Mobile and Ubiquitous Computing Laurence T. Yang, Evi Syukur, Seng W. Loke, 2016-04-19 Consolidating recent research in the area the Handbook on Mobile and Ubiquitous Computing Status and Perspective illustrates the design implementation and deployment of mobile and ubiquitous systems particularly in mobile and ubiquitous environments modeling database components and wireless infrastructures Supplying an overarching perspective

Applied Bioinformatics Paul Maria Selzer, Richard Marhöfer, Andreas Rohwer, 2008-01-18 At last here is a baseline book for anyone who is confused by cryptic computer programs algorithms and formulae but wants to learn about applied bioinformatics Now anyone who can operate a PC standard software and the internet can also learn to understand the biological basis of bioinformatics of the existence as well as the source and availability of bioinformatics software and how to apply these tools and interpret results with confidence This process is aided by chapters that introduce important aspects of bioinformatics detailed bioinformatics exercises including solutions and to cap it all a glossary of definitions and terminology relating to bioinformatics

Grammatical and Syntactical Approaches in Architecture Ju Hyun Lee, Michael J. Ostwald, 2019-12-19 This book illustrates syntactically derived and grammatically interpolated approaches for architectural configuration analysis and design generation

Handbook of Computational Social Choice Felix Brandt, Vincent Conitzer, Ulle Endriss, Jérôme Lang, Ariel D. Procaccia, 2016-04-25 The rapidly growing field of computational social choice at the intersection of computer science and economics deals with the computational aspects of collective decision making This handbook written by thirty six prominent members of the computational social choice community covers the field comprehensively Chapters devoted to each of the field's major themes offer detailed introductions Topics include voting theory such as the computational complexity of winner determination and manipulation in elections fair allocation such as algorithms for dividing divisible and indivisible goods coalition formation such as matching and hedonic games and many more Graduate students researchers and professionals in computer science economics mathematics political science and philosophy will benefit from this

accessible and self contained book **The Oxford Handbook of International Refugee Law** Cathryn Costello,Michelle Foster,Jane McAdam,2021 This Handbook draws together leading and emerging scholars to provide a comprehensive critical analysis of international refugee law This book provides an account as well as a critique of the status quo setting the agenda for future research in the field [Handbook of Photovoltaic Science and Engineering](#) Antonio Luque,Steven Hegedus,2011-01-31 The most comprehensive authoritative and widely cited reference on photovoltaic solar energy Fully revised and updated the Handbook of Photovoltaic Science and Engineering Second Edition incorporates the substantial technological advances and research developments in photovoltaics since its previous release All topics relating to the photovoltaic PV industry are discussed with contributions by distinguished international experts in the field Significant new coverage includes three completely new chapters and six chapters with new authors device structures processing and manufacturing options for the three major thin film PV technologies high performance approaches for multijunction concentrator and space applications new types of organic polymer and dye sensitized solar cells economic analysis of various policy options to stimulate PV growth including effect of public and private investment Detailed treatment covers scientific basis of the photovoltaic effect and solar cell operation the production of solar silicon and of silicon based solar cells and modules how choice of semiconductor materials and their production influence costs and performance making measurements on solar cells and modules and how to relate results under standardised test conditions to real outdoor performance photovoltaic system installation and operation of components such as inverters and batteries architectural applications of building integrated PV Each chapter is structured to be partially accessible to beginners while providing detailed information of the physics and technology for experts Encompassing a review of past work and the fundamentals in solar electric science this is a leading reference and invaluable resource for all practitioners consultants researchers and students in the PV industry **INCOSE Systems Engineering Handbook** INCOSE,2015-06-12 A detailed and thorough reference on the discipline and practice of systems engineering The objective of the International Council on Systems Engineering INCOSE Systems Engineering Handbook is to describe key process activities performed by systems engineers and other engineering professionals throughout the life cycle of a system The book covers a wide range of fundamental system concepts that broaden the thinking of the systems engineering practitioner such as system thinking system science life cycle management specialty engineering system of systems and agile and iterative methods This book also defines the discipline and practice of systems engineering for students and practicing professionals alike providing an authoritative reference that is acknowledged worldwide The latest edition of the INCOSE Systems Engineering Handbook Is consistent with ISO IEC IEEE 15288 2015 Systems and software engineering System life cycle processes and the Guide to the Systems Engineering Body of Knowledge SEBoK Has been updated to include the latest concepts of the INCOSE working groups Is the body of knowledge for the INCOSE Certification Process This book is ideal for any engineering professional who has an interest in or needs to

apply systems engineering practices This includes the experienced systems engineer who needs a convenient reference a product engineer or engineer in another discipline who needs to perform systems engineering a new systems engineer or anyone interested in learning more about systems engineering

Data Science and Machine Learning Dirk P. Kroese,Zdravko Botev,Thomas Taimre,Radislav Vaisman,2019-11-20 Focuses on mathematical understanding Presentation is self contained accessible and comprehensive Full color throughout Extensive list of exercises and worked out examples Many concrete algorithms with actual code

Handbook of Monte Carlo Methods Dirk P. Kroese,Thomas Taimre,Zdravko I. Botev,2013-06-06 A comprehensive overview of Monte Carlo simulation that explores the latest topics techniques and real world applications More and more of today s numerical problems found in engineering and finance are solved through Monte Carlo methods The heightened popularity of these methods and their continuing development makes it important for researchers to have a comprehensive understanding of the Monte Carlo approach Handbook of Monte Carlo Methods provides the theory algorithms and applications that helps provide a thorough understanding of the emerging dynamics of this rapidly growing field The authors begin with a discussion of fundamentals such as how to generate random numbers on a computer Subsequent chapters discuss key Monte Carlo topics and methods including Random variable and stochastic process generation Markov chain Monte Carlo featuring key algorithms such as the Metropolis Hastings method the Gibbs sampler and hit and run Discrete event simulation Techniques for the statistical analysis of simulation data including the delta method steady state estimation and kernel density estimation Variance reduction including importance sampling latin hypercube sampling and conditional Monte Carlo Estimation of derivatives and sensitivity analysis Advanced topics including cross entropy rare events kernel density estimation quasi Monte Carlo particle systems and randomized optimization The presented theoretical concepts are illustrated with worked examples that use MATLAB a related Web site houses the MATLAB code allowing readers to work hands on with the material and also features the author s own lecture notes on Monte Carlo methods Detailed appendices provide background material on probability theory stochastic processes and mathematical statistics as well as the key optimization concepts and techniques that are relevant to Monte Carlo simulation Handbook of Monte Carlo Methods is an excellent reference for applied statisticians and practitioners working in the fields of engineering and finance who use or would like to learn how to use Monte Carlo in their research It is also a suitable supplement for courses on Monte Carlo methods and computational statistics at the upper undergraduate and graduate levels

Discrete Mathematics Oscar Levin,2016-08-16 This gentle introduction to discrete mathematics is written for first and second year math majors especially those who intend to teach The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado This course serves both as an introduction to topics in discrete math and as the introduction to proof course for math majors The course is usually taught with a large amount of student inquiry and this text is written to help facilitate this Four main topics are covered counting sequences logic and

graph theory Along the way proofs are introduced including proofs by contradiction proofs by induction and combinatorial proofs The book contains over 360 exercises including 230 with solutions and 130 more involved problems suitable for homework There are also Investigate activities throughout the text to support active inquiry based learning While there are many fine discrete math textbooks available this text has the following advantages It is written to be used in an inquiry rich course It is written to be used in a course for future math teachers It is open source with low cost print editions and free electronic editions

Engineering Materials 2 Michael F. Ashby, D.R.H. Jones, 2014-06-28 Provides a thorough explanation of the basic properties of materials of how these can be controlled by processing of how materials are formed joined and finished and of the chain of reasoning that leads to a successful choice of material for a particular application The materials covered are grouped into four classes metals ceramics polymers and composites Each class is studied in turn identifying the families of materials in the class the microstructural features the processes or treatments used to obtain a particular structure and their design applications The text is supplemented by practical case studies and example problems with answers and a valuable programmed learning course on phase diagrams

Learning Statistics with R Daniel Navarro, 2013-01-13 Learning Statistics with R covers the contents of an introductory statistics class as typically taught to undergraduate psychology students focusing on the use of the R statistical software and adopting a light conversational style throughout The book discusses how to get started in R and gives an introduction to data manipulation and writing scripts From a statistical perspective the book discusses descriptive statistics and graphing first followed by chapters on probability theory sampling and estimation and null hypothesis testing After introducing the theory the book covers the analysis of contingency tables t tests ANOVAs and regression Bayesian statistics are covered at the end of the book For more information and the opportunity to check the book out before you buy visit <http://ua.edu/au/ccs/teaching/lsr/> or <http://learningstatisticswithr.com>

The Telecommunications Handbook Jyrki T. J. Penttinen, 2015-01-13 This practical handbook and reference provides a complete understanding of the telecommunications field supported by descriptions and case examples throughout Taking a practical approach The Telecommunications Handbook examines the principles and details of all of the major and modern telecommunications systems currently available to industry and to end users It gives essential information about usage architectures functioning planning construction measurements and optimisation The structure of the book is modular giving both overall descriptions of the architectures and functionality of typical use cases as well as deeper and practical guidelines for telecom professionals The focus of the book is on current and future networks and the most up to date functionalities of each network are described in sufficient detail for deployment purposes The contents include an introduction to each technology its evolution path feasibility and utilization solution and network architecture and technical functioning of the systems signalling coding different modes for channel delivery and security of core and radio system The planning of the core and radio networks system specific field test measurement guidelines hands on network

planning advices and suggestions for the parameter adjustments and future systems are also described Each chapter covers aspects individually for easy reference including approaches such as functional blocks protocol layers hardware and software planning optimization use cases challenges solutions to potential problems Provides very practical detail on the planning and operation of networks to enable readers to apply the content in real world deployments Bridges the gap between the communications in the academic context and the practical knowledge and skills needed to work in the telecommunications industry Section divisions include General theory Fixed telecommunications Mobile communications Space communications Other and special communications and Planning and management of telecommunication networks Covers new commercial and enhanced systems deployed such as IPv6 based networks LTE Advanced and GALILEO An essential reference for Technical personnel at telecom operators equipment and terminal manufacturers Engineers working for network operators

Computational Fluid Dynamics in Fire Engineering Guan Heng Yeoh, Kwok Kit Yuen, 2009-04-20 Fire and combustion presents a significant engineering challenge to mechanical civil and dedicated fire engineers as well as specialists in the process and chemical safety buildings and structural fields We are reminded of the tragic outcomes of untenable fire disasters such as at King s Cross underground station or Switzerland s St Gotthard tunnel In these and many other cases computational fluid dynamics CFD is at the forefront of active research into unravelling the probable causes of fires and helping to design structures and systems to ensure that they are less likely in the future Computational fluid dynamics CFD is routinely used as an analysis tool in fire and combustion engineering as it possesses the ability to handle the complex geometries and characteristics of combustion and fire This book shows engineering students and professionals how to understand and use this powerful tool in the study of combustion processes and in the engineering of safer or more fire resistant or conversely more fire efficient structures No other book is dedicated to computer based fire dynamics tools and systems It is supported by a rigorous pedagogy including worked examples to illustrate the capabilities of different models an introduction to the essential aspects of fire physics examination and self test exercises fully worked solutions and a suite of accompanying software for use in industry standard modeling systems Computational Fluid Dynamics CFD is widely used in engineering analysis this is the only book dedicated to CFD modeling analysis in fire and combustion engineering Strong pedagogic features mean this book can be used as a text for graduate level mechanical civil structural and fire engineering courses while its coverage of the latest techniques and industry standard software make it an important reference for researchers and professional engineers in the mechanical and structural sectors and by fire engineers safety consultants and regulators Strong author team CUHK is a recognized centre of excellence in fire eng deliver an expert package for students and professionals showing both theory and applications Accompanied by CFD modeling code and ready to use simulations to run in industry standard ANSYS CFX and Fluent software

Computer Security William Stallings, Lawrie Brown, 2012-02-28 This is the eBook of the printed book and may not include any media website access codes or print supplements that may

come packaged with the bound book Computer Security Principles and Practice 2e is ideal for courses in Computer Network Security In recent years the need for education in computer security and related topics has grown dramatically and is essential for anyone studying Computer Science or Computer Engineering This is the only text available to provide integrated comprehensive up to date coverage of the broad range of topics in this subject In addition to an extensive pedagogical program the book provides unparalleled support for both research and modeling projects giving students a broader perspective The Text and Academic Authors Association named Computer Security Principles and Practice 1e the winner of the Textbook Excellence Award for the best Computer Science textbook of 2008 **The Mechatronics**

Handbook - 2 Volume Set Robert H. Bishop, 2018-10-08 The first comprehensive reference on mechatronics The Mechatronics Handbook was quickly embraced as the gold standard in the field From washing machines to coffeemakers to cell phones to the ubiquitous PC in almost every household what these days doesn't take advantage of mechatronics in its design and function In the scant five years since the initial publication of the handbook the latest generation of smart products has made this even more obvious Too much material to cover in a single volume Originally a single volume reference the handbook has grown along with the field The need for easy access to new material on rapid changes in technology especially in computers and software has made the single volume format unwieldy The second edition is offered as two easily digestible books making the material not only more accessible but also more focused Completely revised and updated Robert Bishop's seminal work is still the most exhaustive state of the art treatment of the field available

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