

COMP1000: WEB, SPREADSHEETS & DATABASES

1.0 EXCEL

1.1 INTRODUCTION, FORMULAS AND FUNCTIONS

WHY USE SPREADSHEETS?

- Makes tasks easier, faster and more accurate
- Automatically recalculates if data changes
- Easy creation of charts

ABSOLUTE VS. RELATIVE REFERENCE (USE F4 TO TOGGLE)

- Absolute: Cell reference remains unchanged e.g. \$B\$3
- Relative: Cell reference adjusts during copy operations e.g. B3
- Mixed: Uses a single \$ sign to make the column or row absolute, leaving the other as relative e.g. \$B3 or B\$3

NAMING RANGES

- Range names used to identify a cell range to make formulas easier to read
- Must begin with letter or underscore
- Contains letters, digits, period or underscore
- Right click on selected range > Define Name
- 'Name Manager' in Formulas tab can be used to maintain them

PMT

Calculates periodic (monthly) payment for a loan with fixed interest rate and term length

=PMT(interest rate, periods, principal)

- Interest rate: yearly rate divided by period
- Periods: years x payments per year (period)
- Principal: present value aka amount of loan

TESTING/DEBUGGING/AUDITING SPREADSHEETS

Very easy to make mistakes so you must thoroughly test your solutions for things like ...

- Invalid or missing data in a cell
- Formula is replaced by a constant in a cell
- Incorrect cell references in a formula

Tips:

- Test for different input values — use borderline cases and abnormal input values
- Use an alternative method (say by hand or using a different approach) to compute few answers
- Try to keep input, processing and output regions of your spreadsheet separate
- Use IF statements, Conditional formatting, Statistical functions, etc. to locate errors

Debugging using cell selection:

- 'Go to special' to locate cells with blanks, formulas, constants, etc.
- Locate cells that are 'different' in a given range

Debugging using tracing:

- Formulas > Trace precedents



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Igor Schagaev, Jürg Gutknecht



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Wiley CPAexcel Exam Review 2014 Study Guide O. Ray Whittington, 2013-11-07 Everything today's CPA candidates need to pass the CPA Exam Published annually this Auditing and Attestation volume of the comprehensive four volume paperback reviews all current AICPA content requirements in auditing and attestation Many of the questions are taken directly from previous CPA exams With 2 800 multiple choice questions in all four volumes these study guides provide all the information candidates need to master in order to pass the computerized Uniform CPA Examination Its unique modular format helps you zero in on those areas that need more attention and organize your study program Complete sample exam The most effective system available to prepare for the CPA exam proven for over thirty years Timely up to the minute coverage for the computerized exam Contains all current AICPA content requirements in auditing and attestation Unique modular format helps candidates zero in on areas that need work organize their study program and concentrate their efforts Comprehensive questions over 2 800 multiple choice questions and their solutions in the four volumes Guidelines pointers and tips show how to build knowledge in a logical and reinforcing way Other titles by Whittington Audit Sampling An Introduction Fifth Edition Wiley CPA Exam Review 2014 arms test takers with detailed outlines study guidelines and skill building problems to help candidates identify focus on and master the specific topics that need the most work *Nutrition Research Methodologies* Julie A. Lovegrove, Leanne Hodson, Sangita Sharma, Susan A. Lanham-New, 2015-01-12 A new book in the acclaimed Nutrition Society Textbook Series Nutrition Research Methodologies addresses the rapidly advancing field of nutrition research It covers the diverse methodologies required for robust nutritional research to ensure thorough understanding of key concepts both for students at undergraduate and postgraduate levels and for scientists working in nutrition research Combining theory with practical application Nutrition Research Methodologies addresses both traditional research methods and new technologies and focuses on a range of complex topics including energy compensation nutrient gene interactions and metabolic adaptation It also considers statistical issues as well as application of data to policy development Provides the reader with the required scientific basics of nutrition research in the context of a systems and health approach Written specifically to meet the needs of individuals involved in nutrition research Combines the viewpoints of world leading nutrition experts from academia and research with practical applications Accompanied by a companion website with a range of self assessment material www.wiley.com/go/lovegrove/nutritionresearch *Wiley CPAexcel Exam Review 2015 Study Guide July* O. Ray Whittington, 2015-05-19 The Business Environment and Concepts Volume of the Wiley CPA Examination Study Guides arms readers with detailed outlines and study guidelines plus skill building problems and solutions that help the CPA candidates identify focus on and master the specific topics that need the most work Many of the practice questions are taken from previous exams and care was taken to ensure that they cover all the information candidates need to master in order to pass the new computerized Uniform CPA Examination **Big Digital Forensic Data** Darren Quick, Kim-Kwang Raymond

Choo,2018-06-12 This book provides an in depth understanding of big data challenges to digital forensic investigations also known as big digital forensic data It also develops the basis of using data mining in big forensic data analysis including data reduction knowledge management intelligence and data mining principles to achieve faster analysis in digital forensic investigations By collecting and assembling a corpus of test data from a range of devices in the real world it outlines a process of big digital forensic data analysis for evidence and intelligence It includes the results of experiments on vast volumes of real digital forensic data The book is a valuable resource for digital forensic practitioners researchers in big data cyber threat hunting and intelligence data mining and other related areas *Wiley CPAexcel Exam Review 2015 Study Guide (January)* O. Ray Whittington,2015-01-29 I wanted to say I bought just the four books by Wiley for each CPA section and took all 4 parts of the exam in May 2009 I studied for about half a year and I PASSED ALL 4 PARTS ON THE FIRST TRY 95% REG 88% FAR 82% AUD 81% BEC I am very excited and happy that these books alone helped me pass Gabriela Adriana Mandiuc Boerne Texas All the information you need to master the computerized CPA exam The most effective system available to prepare for the CPA exam proven for nearly forty years Timely up to the minute coverage for the computerized exam Contains all current AICPA content requirements in Auditing and Attestation Unique modular format helps you zero in on areas that need work organize your study program and concentrate your efforts Comprehensive questions over 3 800 multiple choice questions and their solutions in the four volumes Covers the new simulation style problems Includes over 280 simulations Complete sample exam in Auditing and Attestation Guidelines pointers and tips show you how to build knowledge in a logical and reinforcing way Wiley CPAexcel Exam Review Study Guide 2015 arms test takers with detailed outlines study guidelines and skill building problems to help candidates identify focus on and master the specific topics that need the most work Handbook of Research on War Policies, Strategies, and Cyber Wars Özsungur, Fahri,2023-05-05 In the new world order conflicts between countries are increasing Fluctuations in the economy and imbalances in the distribution of scarce resources to developing countries can result in wars The effect of the recent COVID 19 pandemic and economic crisis has caused changes in the strategies and policies of countries Technological changes and developments have also triggered cyber wars Despite this many countries prefer to fight on the field The damage to the international economy of wars which kills civilians and causes serious damage to developing countries is a current issue The Handbook of Research on War Policies Strategies and Cyber Wars examines the factors that lead to war and the damages caused by war strategies and policies It is a guide for future generations to develop constructive policies and strategies for living in a peaceful world Covering topics such as geopolitical consequences civil liberty and terrorism this major reference work is a dynamic resource for policymakers strategists government officials politicians sociologists students and educators of higher education librarians researchers and academicians Wiley CPAexcel Exam Review Spring 2014 Study Guide O. Ray Whittington,2014-05-29 The world s most effective CPA exam prep system Business and Environmental Concepts module

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Implementing Effective IT Governance and IT Management Gad Selig,2015-02-01 This book is a revised edition of the best selling title Implementing IT Governance ISBN 978 90 8753 119 5 For trainers free additional material of this book is available This can be found under the Training Material tab Log in with your trainer account to access the material In all enterprises around the world the issues opportunities and challenges of aligning IT more closely with the organization and effectively governing an organization's IT investments resources major initiatives and superior uninterrupted service is becoming a major concern of the Board and executive management An integrated and comprehensive approach to the alignment planning execution and governance of IT and its resources has become critical to more effectively align integrate invest measure deploy service and sustain the strategic and tactical direction and value proposition of IT in support of organizations Much has been written and documented about the individual components of IT Governance such as strategic planning demand management program and project management IT service management strategic sourcing and outsourcing performance management metrics compliance and others Much less has been written about a comprehensive and integrated approach for IT Business Alignment Planning Execution and Governance This title fills that need in the marketplace and offers readers structured and practical solutions using the best of the best practices available today The book is divided into two parts which cover the three critical pillars necessary to develop execute and sustain a robust and effective IT governance environment Leadership

people organization and strategy IT governance its major component processes and enabling technologies Each of the chapters also covers one or more of the following action oriented topics the why and what of IT strategic planning portfolio investment management decision authority etc the how of IT Program Project Management IT Service Management including ITIL Strategic Sourcing and outsourcing performance risk and contingency management including COBIT the Balanced Scorecard etc and leadership team management and professional competences **Human-Computer Interaction.**

Theory, Design, Development and Practice Masaaki Kurosu, 2016-07-04 The 3 volume set LNCS 9731 9732 and 9733 constitutes the refereed proceedings of the 18th International Conference on Human Computer Interaction HCII 2016 held in Toronto ON Canada in July 2016 The total of 1287 papers and 186 posters presented at the HCII 2016 conferences and were carefully reviewed and selected from 4354 submissions The papers thoroughly cover the entire field of Human Computer Interaction addressing major advances in knowledge and effective use of computers in a variety of application areas The volumes constituting the full 27 volume set of the conference proceedings Research Outlook, Innovations & Research Trends in Science & Technology Prof S S Rajput, Prof Dr Zeliha Selamoglu, Dr Prashant P Chaudhari, Mrs Priyanka Gupta, 2020-10-25 This book is focused predominantly on academicians research scholars belong to science and engineering managers scientists technicians and other professionals in the field of qualitative research This book is comprehended from different sources of research in Science and Technology On the first occasion the task of providing researchers with a broad view of the relationship between science and technology The second reason for writing the book was the need to fill a gap in academics and research While many excellent books documents and article exist for innovative practices we have not found a work in which we can properly understand the content that the researcher needs to understand So after much deliberation we decided to collect all quality efforts in one string At the most basic level this book is trying to show research scholars what science technology and innovations are all about It cannot study or gain knowledge of that part and is at a level that most researchers should find clear and understandable Our goal was to develop content that will help researchers who are beginning to use innovative practices We hope to meet the needs of academicians research scholars who are being encouraged to incorporate more reading and writing in the field of science and technology In summary this book is targeted to the needs of individuals engaged in quality research activities in science and technology Our goal is to present the topics of creativity and innovation to this audience in a way that enables them to incorporate new skills into their daily work We would like to thank all the contributors who have made the production of this book so fascinating and enjoyable Their scholarship and dedicated commitment and motivation to getting it right are the keys to the book's quality and we greatly appreciate their good nature over many months in the face of our editorial demands and time limits We are also grateful for using their texts ideas and critical remarks We would also like to thank Prof Dr Nilam N Ghuge Prof Dr D Ayub Khan Dawood Prof Dr Vilas A Pharande all reviewers and all authors for their help in consolidating the interdisciplinary of the book We are

grateful to all the 18 institutions for their support It will not be possible to bring out this edition **Solar Energy Update**
,1983 **Computer Security** Sokratis K. Katsikas,Frédéric Cuppens,Nora Cuppens,Costas Lambrinoudakis,Annie

Antón,Stefanos Gritzalis,John Mylopoulos,Christos Kalloniatis,2019-01-30 This book constitutes the thoroughly refereed post conference proceedings of the 4th International Workshop on the Security of Industrial Control Systems and Cyber Physical Systems CyberICPS 2018 and the Second International Workshop on Security and Privacy Requirements Engineering SECPRE 2018 held in Barcelona Spain in September 2018 in conjunction with the 23rd European Symposium on Research in Computer Security ESORICS 2018 The CyberICPS Workshop received 15 submissions from which 8 full papers were selected for presentation They cover topics related to threats vulnerabilities and risks that cyber physical systems and industrial control systems face cyber attacks that may be launched against such systems and ways of detecting and responding to such attacks From the SECPRE Workshop 5 full papers out of 11 submissions are included The selected papers deal with aspects of security and privacy requirements assurance and evaluation and security requirements elicitation and modelling

Developments in the Analysis and Design of Marine Structures Jorgen Amdahl,C. Guedes Soares,2021-12-28

Developments in the Analysis and Design of Marine Structures is a collection of papers presented at MARSTRUCT 2021 the 8th International Conference on Marine Structures by remote transmission 7 9 June 2021 organised by the Department of Marine Technology of the Norwegian University of Science and Technology Trondheim Norway and is essential reading for academics engineers and professionals involved in the design of marine and offshore structures The MARSTRUCT Conference series deals with Ship and Offshore Structures addressing topics in the fields of Methods and Tools for Loads and Load Effects Methods and Tools for Strength Assessment Experimental Analysis of Structures Materials and Fabrication of Structures Methods and Tools for Structural Design and Optimisation and Structural Reliability Safety and Environmental Protection The MARSTRUCT conferences series of started in Glasgow UK in 2007 the second event of the series took place in Lisbon Portugal in March 2009 the third in Hamburg Germany in March 2011 the fourth in Espoo Finland in March 2013 the fifth in Southampton UK in March 2015 the sixth in Lisbon Portugal in May 2017 and the seventh in Drubovnik Croatia in May 2019 The Proceedings in Marine Technology and Ocean Engineering series is dedicated to the publication of proceedings of peer reviewed international conferences dealing with various aspects of Marine Technology and Ocean Engineering The Series includes the proceedings of the following conferences the International Maritime Association of the Mediterranean IMAM conferences the Marine Structures MARSTRUCT conferences the Renewable Energies Offshore RENEW conferences and the Maritime Technology MARTECH conferences The Marine Technology and Ocean Engineering series is also open to new conferences that cover topics on the sustainable exploration and exploitation of marine resources in various fields such as maritime transport and ports usage of the ocean including coastal areas nautical activities the exploration and exploitation of mineral resources the protection of the marine environment and its resources and risk

analysis safety and reliability The aim of the series is to stimulate advanced education and training through the wide dissemination of the results of scientific research

Software Design for Resilient Computer Systems Igor Schagaev, Jürg Gutknecht, 2024-07-15 This book addresses the question of how system software should be designed to account for faults and which fault tolerance features should provide for highest reliability With this third edition of Software Design for Resilient Computer Systems the book is thoroughly updated to contain the newest advice regarding software resilience With a new introductory chapter the new edition is ideal for researchers and industry professionals In the book the authors first show how system software interacts with the hardware to tolerate faults They analyze and further develop the theory of fault tolerance to understand the diverse ways to increase the reliability of a system with special attention on the role of system software in this process They introduce the theory of redundancy and its use for construction of a subsystem through generalised algorithm of fault tolerance GAFT and apply it to distributed systems The book's approach is applied to various hardware subsystems different structures of RAM and processor cores and demonstrates exceptional performance reliability and energy efficiency This third edition devotes substantial attention to system software for modern computers including run time systems supporting algorithms of recovery and their analysis language aspects and ways to improve reconfigurable and parallel computing Due to the wide reaching nature of the content this book applies to a host of industries and research areas including military aviation intensive health care industrial control and space exploration

Implementing Digital Forensic Readiness Jason Sachowski, 2019-05-29 Implementing Digital Forensic Readiness From Reactive to Proactive Process Second Edition presents the optimal way for digital forensic and IT security professionals to implement a proactive approach to digital forensics The book details how digital forensic processes can align strategically with business operations and an already existing information and data security program Detailing proper collection preservation storage and presentation of digital evidence the procedures outlined illustrate how digital evidence can be an essential tool in mitigating risk and reducing the impact of both internal and external digital incidents disputes and crimes By utilizing a digital forensic readiness approach and stances a company's preparedness and ability to take action quickly and respond as needed In addition this approach enhances the ability to gather evidence as well as the relevance reliability and credibility of any such evidence New chapters to this edition include Chapter 4 on Code of Ethics and Standards Chapter 5 on Digital Forensics as a Business and Chapter 10 on Establishing Legal Admissibility This book offers best practices to professionals on enhancing their digital forensic program or how to start and develop one the right way for effective forensic readiness in any corporate or enterprise setting

Ethical Use of Information Technology in Higher Education Liliana Mățã, 2021-07-14 This book addresses current issues regarding the ethical use of information technology in a holistic vision by combining the perspectives of education specialists and those in the field of computer science at the level of higher education It provides a current ethical perspective on the problems and solutions involved in the use of information technology in higher education It

appeals to readers interested in exploring the problems and appropriate solutions related to the ethical use of new technologies in higher education

Advances in Engineered Cementitious Composite Y. X. Zhang, Kequan Yu, 2022-02-26 *Advances in Engineered Cementitious Composite Materials Structures and Numerical Modelling* focuses on recent research developments in high performance fiber reinforced cementitious composites covering three key aspects i.e. materials structures and numerical modeling Sections discuss the development of materials to achieve high performance by using different type of fibers including polyvinyl alcohol PVA polyethylene PE polypropylene PP and hybrid fibers Other chapters look at experimental studies on the application of high performance fiber reinforced cementitious composites on structures and the performance of structural components including beams slabs and columns and recent development of numerical methods and modeling techniques for modeling material properties and structural behavior This book will be an essential reference resource for materials scientists civil and structural engineers and all those working in the field of high performance fiber reinforced cementitious composites and structures Features up to date research on HPFRCC from materials development to structural application Includes recent experimental studies and advanced numerical modeling analysis Covers methods for modeling material properties and structural performance Explains how different types of fibers can affect structural performance

Data Science with Semantic Technologies Archana Patel, Narayan C. Debnath, 2023-06-20 Gone are the days when data was interlinked with related data by humans and human interpretation was required Data is no longer just data It is now considered a Thing or Entity or Concept with meaning so that a machine not only understands the concept but also extrapolates the way humans do Data Science with Semantic Technologies Deployment and Exploration the second volume of a two volume handbook set provides a roadmap for the deployment of semantic technologies in the field of data science and enables the user to create intelligence through these technologies by exploring the opportunities and eradicating the challenges in the current and future time frame In addition this book offers the answer to various questions like What makes a technology semantic as opposed to other approaches to data science What is knowledge data science How does knowledge data science relate to other fields This book explores the optimal use of these technologies to provide the highest benefit to the user under one comprehensive source and title As there is no dedicated book available in the market on this topic at this time this book becomes a unique resource for scholars researchers data scientists professionals and practitioners This volume can serve as an important guide toward applications of data science with semantic technologies for the upcoming generation

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