

Number

...or **NUMB**, for the correct order of operations, take care when using a calculator.

- Brackets
- Orders (or powers)
- Division and Multiplication
- Addition and Subtraction

Types of number

Integer: a 'whole' number
Factors: the divisors of an integer
• Factors of 12 are 1, 2, 3, 4, 6, 12
Multiples: a 'times table' for an integer (with infinite multiples)
• Multiples of 12 are 12, 24, 36, ...
Prime number: an integer which has exactly two factors (1 and the number itself). Note it is not a prime number.

Units

Highest Common Factor (HCF)
• Factors of 6 are 1, 2, 3, 6
Factors of 9 are 1, 3, 9
HCF of 6 and 9 is 3

Lowest Common Multiple (LCM)

• Multiples of 6 are 6, 12, 18, 24, ...
Multiples of 9 are 9, 18, 27, 36, ...
LCM of 6 and 9 is 18

Power notation

Write a number as a product of its prime factors, and follow for repeated factors.
• $120 = 2^3 \times 3 \times 5$

Indices and roots

Special indices for any value a
 $a^0 = 1$
 $a^{-1} = \frac{1}{a}$
 $a^{\frac{1}{2}} = \sqrt{a}$

Ordering with fractions

Adding or subtracting fractions, use a common denominator.
• $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6} = \frac{5}{6}$

Multiplying fractions

Multiplying fractions: multiply numerators and denominators.
• $\frac{1}{2} \times \frac{1}{3} = \frac{1 \times 1}{2 \times 3} = \frac{1}{6}$

Dividing fractions

Dividing fractions: 'flip' the second fraction, then multiply.
• $\frac{1}{2} \div \frac{1}{3} = \frac{1}{2} \times \frac{3}{1} = \frac{3}{2}$

Prime factors

Factorise an integer as a product of its prime factors.
• $12 = 2 \times 2 \times 3 = 2^2 \times 3$

Least common multiple

12	18	24	36	48	60
12	18	24	36	48	60

Algebra

Look for the biggest square number factor of the coefficient.
• $12x^2 = 4 \times 3 \times x^2 = 4x^2 \times 3x$

Standard form

Standard form numbers are of the form: $a \times 10^n$ where $1 \leq a < 10$ and n is an integer.

Scientific notation

1 metre = 1000 millimetres
1 kilometre = 1000 metres
1 metre = 100 centimetres
1000 millimetres = 1000 millimetres
1 centimetre = 10 millimetres

1 day = 24 hours
1 hour = 60 minutes = 3600 seconds
1 minute = 60 seconds

Area and perimeter

Calculate the perimeter, then use it to 'double' (if) to find area or vice versa.
Perimeter (P) = 2(a + b)
Area (A) = ab

Volume

Volume (V) = length $\times$ width $\times$ height
• $V = l \times w \times h$

Area and perimeter

Find the area of a rectangle that will equal to a given value.
• $A = l \times w$ (if l is known, find w)
• $A = l \times w$ (if w is known, find l)

Area and perimeter

Note use of π and 4 , and that the last equivalent figure of π is 3.
• $A = \pi r^2$

Area and perimeter

Area of a circle: $A = \pi r^2$
Circumference: $C = 2\pi r$

Area and perimeter

Area of a triangle: $A = \frac{1}{2}bh$
Perimeter: $P = a + b + c$

Area and perimeter

Area of a rectangle: $A = lw$
Perimeter: $P = 2(l + w)$

Area and perimeter

Area of a square: $A = s^2$
Perimeter: $P = 4s$

Area and perimeter

Area of a circle: $A = \pi r^2$

Geometry & measures



Area and perimeter

Equation of a straight line: $y = mx + c$
• m is the gradient, c is the y -intercept
Find the equation of the line that joins (1, 2) to (3, 4)

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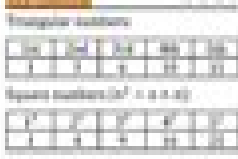
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Victor Patrangenaru, Leif Ellingson



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Image and Video Technology - PSIVT 2015 Workshops Fay Huang, Akihiro Sugimoto, 2016-02-29 This book constitutes the thoroughly refereed post conference proceedings of six international workshops held in the framework of the 7th Pacific Rim Symposium on Image and Video Technology PSIVT 2015 during November 23-24 2015 in Auckland New Zealand The 29 revised full papers presented were carefully selected from 58 submissions Their topics diversely ranged from well established areas to novel current trends robot vision RV 2015 2D and 3D geometric properties from incomplete data GPID 2015 vision meets graphics VG 2015 passive and active electro optical sensors for aerial and space imaging EO4AS 2015 mathematical and computational methods in biomedical imaging and image analysis MCBMIIA 2015 and video surveillance VSWS 2015 *Mapping irrigated and rainfed agriculture in Ethiopia (2015-2016) using remote sensing methods* Chandrasekharan, Kiran M., Subasinghe, Chandima, Haileslassie, Amare, 2021-12-20 New Trends in Image Analysis and Processing -- ICIAP 2015 Workshops Vittorio Murino, Enrico Puppo, Diego Sona, Marco Cristani, Carlo Sansone, 2015-08-20 This book constitutes the refereed proceedings of seven workshops held at the 18th International Conference on Image Analysis and Processing ICIAP 2015 in Genoa Italy in September 2015 International Workshop on Recent Advances in Digital Security Biometrics and Forensics BioFor 2015 International Workshop on Color in Texture and Material Recognition CTMR 2015 International Workshop on Medical Imaging in Rheumatology Advanced applications for the analysis of inflammation and damage in the rheumatoid joint RHEUMA 2015 International Workshop on Image Based Smart City Application ISCA 2015 International Workshop on Multimedia Assisted Dietary Management MADiMa 2015 International Workshop on Scene Background Modeling and Initialization SBMI 2015 and International Workshop on Image and Video Processing for Quality of Multimedia Experience QoEM 2015 *Material Science and Engineering* Ping Chen, 2016-03-18 Material Science and Engineering presents novel and fundamental advances in the field of material science and engineering This proceedings collects the comprehensive and worldwide research results on Metallic Materials and Applications Chemical Materials Electronic Materials Nanomaterials Composite and Polymer Materials Bio and Medical Materials *Applied Deep Learning with Python* Alex Galea, Luis Capelo, 2018-08-31 A hands on guide to deep learning that is filled with intuitive explanations and engaging practical examples Key Features Designed to iteratively develop the skills of Python users who don't have a data science background Covers the key foundational concepts you'll need to know when building deep learning systems Full of step by step exercises and activities to help build the skills that you need for the real world Book Description Taking an approach that uses the latest developments in the Python ecosystem you'll first be guided through the Jupyter ecosystem key visualization libraries and powerful data sanitization techniques before we train our first predictive model We'll explore a variety of approaches to classification like support vector networks random decision forests and k nearest neighbours to build out your understanding before we move into more complex territory It's okay if these

terms seem overwhelming we'll show you how to put them to work We'll build upon our classification coverage by taking a quick look at ethical web scraping and interactive visualizations to help you professionally gather and present your analysis It's after this that we start building out our keystone deep learning application one that aims to predict the future price of Bitcoin based on historical public data By guiding you through a trained neural network we'll explore common deep learning network architectures convolutional recurrent generative adversarial and branch out into deep reinforcement learning before we dive into model optimization and evaluation We'll do all of this whilst working on a production ready web application that combines Tensorflow and Keras to produce a meaningful user friendly result leaving you with all the skills you need to tackle and develop your own real world deep learning projects confidently and effectively What you will learn Discover how you can assemble and clean your very own datasets Develop a tailored machine learning classification strategy Build train and enhance your own models to solve unique problems Work with production ready frameworks like Tensorflow and Keras Explain how neural networks operate in clear and simple terms Understand how to deploy your predictions to the web Who this book is for If you're a Python programmer stepping into the world of data science this is the ideal way to get started

Building and Delivering Sustainability Solutions: Insights, Methods, and Case-Studies Nathaniel K. Newlands, Tracy A. Porcelli, Andries B. Potgieter, Louis Kouadio, Alfredo Huete, Wei Guo, 2019-10-18 Sustaining ecosystems to deliver what people need and value while mitigating and adapting to global climate change and extreme event impacts presents a complex set of environmental economic and social challenges in ensuring resilient and sustainable food production The Climate Smart Landscape CSL approach has emerged as an integrated management strategy to address the increasing pressures on agricultural production ecosystem conservation rural livelihoods climate change mitigation and adaptation Deploying cheaper more accurate and efficient technology enables the harnessing of big data for use in solving sustainability challenges With improved integrated analytical frameworks statistical approaches spatially explicit models and indices the CSL approach can be further developed and applied for more resilient productive and sustainable ecosystems This eBook brings together original research review hypothesis theory and technology report articles involving 87 authors from 9 countries across Asia Europe and North America These articles present new methodological and technological innovation findings and insights across four themes 1 landscape productivity and crop suitability 2 variable crop requirements for water and nutrients 3 crop health status phenology and phenotyping and 4 crop disease assessment and prediction under integrated pest management IPM **American English File 3E Level 1 Student Book** Christina Latham-Koenig, Clive Oxenden, Jerry Lambert, 2019-07-11 American English File Second Edition retains the popular methodology developed by world renowned authors Christina Latham Koenig and Clive Oxenden language motivation opportunity With grammar vocabulary and pronunciation practice in every lesson students are equipped with a solid foundation for successful speaking Plus an array of digital resources provides even more choice and flexibility Students can learn in the classroom or on the move with Online

Practice language assessment The first goal is to explore the difference between fairness and justice in language assessment The authors distinguish internal and external dimensions of the equitable and just treatment of individuals taking language tests which are used as gatekeeping devices to determine access to education and employment immigrant status citizenship and other rights The second goal is to show how the extent of test fairness can be demonstrated and improved using the tools of psychometrics in particular the models collectively known as Rasch measurement This book will have an enormous impact on the field of language assessment Using Rasch analysis models to explore and identify sources of unfairness the authors make a compelling case for fairness in the design and implementation of language assessment instruments and for justice in the interpretation and use of test results A real strength of the book is that it guides readers through analytical techniques in an accessible way Dan Douglas Professor Emeritus Applied Linguistics Program Iowa State University

Scale Space and Variational Methods in Computer Vision Jean-François Aujol, Mila Nikolova, Nicolas Papadakis, 2015-04-27 This book constitutes the refereed proceedings of the 5th International Conference on Scale Space and Variational Methods in Computer Vision SSVM 2015 held in Le Cap Ferret France in May 2015 The 56 revised full papers presented were carefully reviewed and selected from 83 submissions The papers are organized in the following topical sections scale space and partial differential equation methods denoising restoration and reconstruction segmentation and partitioning flow motion and registration photography texture and color processing shape surface and 3D problems and optimization theory and methods in imaging

Advances in Multimedia Information Processing - PCM 2018 Richang Hong, Wen-Huang Cheng, Toshihiko Yamasaki, Meng Wang, Chong-Wah Ngo, 2018-09-18 The three volume set LNCS 101164 11165 and 11166 constitutes the refereed proceedings of the 19th Pacific Rim Conference on Multimedia PCM 2018 held in Hefei China in September 2018 The 209 regular papers presented together with 20 special session papers were carefully reviewed and selected from 452 submissions The papers cover topics such as multimedia content analysis multimedia signal processing and communications and multimedia applications and services

eWork and eBusiness in Architecture, Engineering and Construction Jan Karlshøj, Raimar Scherer, 2018-09-03 eWork and eBusiness in Architecture Engineering and Construction 2018 collects the papers presented at the 12th European Conference on Product and Process Modelling ECPPM 2018 Copenhagen 12-14 September 2018 The contributions cover complementary thematic areas that hold great promise towards the advancement of research and technological development in the modelling of complex engineering systems encompassing a substantial number of high quality contributions on a large spectrum of topics pertaining to ICT deployment instances in AEC FM including Information and Knowledge Management Construction Management Description Logics and Ontology Application in AEC Risk Management 5D nD Modelling Simulation and Augmented Reality Infrastructure Condition Assessment Standardization of Data Structures Regulatory and Legal Aspects Multi Model and distributed Data Management System Identification Industrialized Production Smart Products and Services Interoperability Smart Cities Sustainable

Buildings and Urban Environments Collaboration and Teamwork BIM Implementation and Deployment Building Performance Simulation Intelligent Catalogues and Services eWork and eBusiness in Architecture Engineering and Construction 2018 represents a rich and comprehensive resource for academics and researchers working in the interdisciplinary areas of information technology applications in architecture engineering and construction In the last two decades the biennial ECPPM European Conference on Product and Process Modelling conference series as the oldest BIM conference has provided a unique platform for the presentation and discussion of the most recent advances with regard to the ICT Information and Communication Technology applications in the AEC FM Architecture Engineering Construction and Facilities Management domains

Image Analysis and Recognition Mohamed Kamel,Aur lio Campilho,2015-07-03 This book constitutes the thoroughly refereed proceedings of the 12th International Conference on Image Analysis and Recognition ICIAR 2015 held in Niagara Falls ON Canada in July 2015 The 55 revised full papers and 5 short papers presented were carefully reviewed and selected from 80 submissions The papers are organized in the following topical sections image quality assessment image enhancement image segmentation registration and analysis image coding compression and encryption dimensionality reduction and classification biometrics face description detection and recognition human activity recognition robotics and 3D vision medical image analysis and applications

Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2015 Roger Lee,2015-10-15 This edited book presents scientific results of the 16th IEEE ACIS International Conference on Software Engineering Artificial Intelligence Networking and Parallel Distributed Computing SNPD 2015 which was held on June 1 3 2015 in Takamatsu Japan The aim of this conference was to bring together researchers and scientists businessmen and entrepreneurs teachers engineers computer users and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way Research results about all aspects theory applications and tools of computer and information science and to discuss the practical challenges encountered along the way and the solutions adopted to solve them

Practical Holography Graham Saxby,2015-09-22 Continuing in the steps of its predecessors the fourth edition of Practical Holography provides the most comprehensive and up to date resource available Focused on practical techniques in holography at all levels it avoids any unnecessary mathematical theory Features of the Fourth EditionHighlights new information on color holograms sensitive m

Web and Wireless Geographical Information Systems Sergio Di Martino,Zhixiang Fang,Ki-Joune Li,2020-10-21 This book constitutes the refereed proceedings of the 18th International Symposium on Web and Wireless Geographical Information Systems W2GIS 2019 held in Wuhan China in November 2020 The 8 full papers presented together with 15 progress papers or short papers in the volume were carefully reviewed and selected from 40 submissions The papers cover topics that range from mobile GIS and Location Based Services to Spatial Information

Retrieval and Wireless Sensor Networks **Computational Vision and Medical Image Processing V** Joao Tavares,R.M.

Natal Jorge,2015-10-14 **VipIMAGE 2015** contains invited lectures and full papers presented at VIPIMAGE 2015 V ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing Tenerife Canary Islands Spain 19 21 October 2015 International contributions from 19 countries provide a comprehensive coverage of the current state of the art in the fields of Underlying Mechanisms Transitioning Seeds to Seedlings Muhammad Awais Farooq,Ewa M. Kalemba ,Alma Balestrazzi,2025-10-03 The ability of the seed to transform into seedlings and eventually develop into a mature plant is dependent on many complex and interactive mechanisms Successful seed germination and survival necessitate genetic proteomic and metabolic inputs acting in a precise chronological order to leverage germline information storage reserves and nutrients Notwithstanding the advancements being made in seed science there are numerous gaps pertaining to the understanding of seed development interactive signaling networks and metabolic programs involved in improving seed yield and nutritional quality that need to be bridged A holistic approach embracing a multi disciplinary understanding of the intricate processes undergoing in seed development offers avenues to advance seed science In the recent past there has been research on seed germination under various abiotic stresses that disrupt the normal germination process However an in depth research is needed to understand the molecular mechanisms transforming the seeds into seedlings Therefore the current issue will emphasize the systems level understanding of seed biology with a special focus on physiological genetic transcriptional proteomic and metabolic networks involved in seed development in model and crop plants The articles included will highlight the novel understanding of key mechanisms that underly seed dormancy trigger the growth of the embryo and endosperm and rupture the testa leading to the successful germination of the seeds There is a particular interest in research and systematic reviews which elucidate the agronomic performance physiological bottlenecks hampering germination novel genes and molecular mechanisms involved in the regulation of seed germination the impact of seed quality on the seedling and mature plant health and any other relevant topics that provide insights to improve yield resilience or meal quality **Architectural, Energy and Information Engineering** Wen-Pei Sung,Ran Chen,2015-12-30 This proceedings volume brings together selected peer reviewed papers presented at the 2015 International Conference on Architectural Energy and Information Engineering AEIE 2015 held July 15 16 2015 in Hong Kong China The proceedings are divided into two parts Architectural Energy and Environmental Engineering and Information Engineering Emerging Technologies and Techniques for Remote Sensing of Coastal and Inland Waters Wesley Moses,Sherry L. Palacios,Andrea J. Vander Woude,2022-11-08 **Computational Intelligence and Intelligent Systems** Kangshun Li,Jin Li,Yong Liu,Aniello Castiglione,2016-01-18 This book constitutes the refereed proceedings of the 7th International Symposium on Intelligence Computation and Applications ISICA 2015 held in Guangzhou China in November 2015 The 77 revised full papers presented were carefully reviewed and selected from 189 submissions The papers feature the most up to date research in analysis and theory of evolutionary computation neural network architectures and learning neuro dynamics and neuro engineering fuzzy

logic and control collective intelligence and hybrid systems deep learning knowledge discovery learning and reasoning

Advances in Visual Computing George Bebis, Richard Boyle, Bahram Parvin, Darko Koracin, Ioannis Pavlidis, Rogerio Feris, Tim McGraw, Mark Elendt, Regis Kopper, Eric Ragan, Zhao Ye, Gunther Weber, 2015-12-17 The two volume set LNCS 9474 and LNCS 9475 constitutes the refereed proceedings of the 11th International Symposium on Visual Computing ISVC 2015 held in Las Vegas NV USA in December 2015 The 115 revised full papers and 35 poster papers presented in this book were carefully reviewed and selected from 260 submissions The papers are organized in topical sections Part I LNCS 9474 comprises computational bioimaging computer graphics motion and tracking segmentation recognition visualization mapping modeling and surface reconstruction advancing autonomy for aerial robotics medical imaging virtual reality observing humans spectral imaging and processing intelligent transportation systems visual perception and robotic systems Part II LNCS 9475 applications 3D computer vision computer graphics segmentation biometrics pattern recognition recognition and virtual reality

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