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“We finally have the definitive treatise on PyTorch! It covers the basics and abstractions in great detail. I hope this book becomes your extended reference document.” —Soumith Chintala, co-creator of PyTorch

Key Features Written by PyTorch’s creator and key contributors Develop deep learning models in a familiar Pythonic way Use PyTorch to build an image classifier for cancer detection Diagnose problems with your neural network and improve training with data augmentation Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About The Book Every other day we hear about new ways to put deep learning to good use: improved medical

imaging, accurate credit card fraud detection, long range weather forecasting, and more. PyTorch puts these superpowers in your hands. Instantly familiar to anyone who knows Python data tools like NumPy and Scikit-learn, PyTorch simplifies deep learning without sacrificing advanced features. It's great for building quick models, and it scales smoothly from laptop to enterprise. Deep Learning with PyTorch teaches you to create deep learning and neural network systems with PyTorch. This practical book gets you to work right away building a tumor image classifier from scratch. After covering the basics, you'll learn best practices for the entire deep learning pipeline, tackling advanced projects as your PyTorch skills become more sophisticated. All code samples are easy to explore in downloadable

Jupyter notebooks. What You Will Learn

Understanding deep learning data structures such as tensors and neural networks Best practices for the PyTorch Tensor API, loading data in Python, and visualizing results Implementing modules and loss functions Utilizing pretrained models from PyTorch Hub Methods for training networks with limited inputs Sifting through unreliable results to diagnose and fix problems in your neural network Improve your results with augmented data, better model

architecture, and fine tuning This Book Is Written For For Python programmers with an interest in machine learning. No experience with PyTorch or other deep

learning frameworks is required. About The Authors Eli Stevens has worked in Silicon Valley for the past 15 years as a software engineer, and the past 7 years as Chief Technical Officer of a startup making medical device software. Luca Antiga is co-founder and CEO of an AI engineering company located in Bergamo, Italy, and a regular contributor to PyTorch. Thomas Viehmann is a Machine Learning and PyTorch speciality trainer and consultant based in Munich, Germany and a PyTorch core developer.

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Category theory is unmatched in its ability to organize and layer abstractions and to find commonalities between structures of all sorts. No

longer the exclusive preserve of pure mathematicians, it is now proving itself to be a powerful tool in science, informatics, and industry. By facilitating communication between communities and building rigorous bridges between disparate worlds, applied category theory has the potential to be a major organizing force. This book offers a self-contained tour of applied category theory. Each chapter follows a single thread motivated by a real-world application and discussed with category-theoretic tools. We see data migration as an adjoint functor, electrical circuits in terms of monoidal categories and operads, and collaborative design via enriched profunctors. All the relevant category theory, from simple to sophisticated, is introduced in an accessible way with many examples and exercises, making this an ideal guide even for those without experience of university-level mathematics. The pixel as the organizing principle of all pictures, from cave paintings to Toy Story. The Great Digital Convergence of all media types into one universal digital medium occurred, with little fanfare, at the recent turn of the millennium. The bit became the universal medium, and the pixel--a particular packaging of bits--conquered the world. Henceforward, nearly every picture in the world would be composed of pixels--cell phone pictures, app interfaces, Mars Rover transmissions, book illustrations, videogames. In A Biography of the

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Pixel, Pixar cofounder Alvy Ray Smith argues that the pixel is the organizing principle of most modern media, and he presents a few simple but profound ideas that unify the dazzling varieties of digital image making. Smith's story of the pixel's development begins with Fourier waves, proceeds through Turing machines, and ends with the first digital movies from Pixar, DreamWorks, and Blue Sky. Today, almost all the pictures we encounter are digital--mediated by the pixel and irretrievably separated from their media; museums and kindergartens are two of the last outposts of the analog. Smith explains, engagingly and accessibly, how pictures composed of invisible stuff become visible--that is, how digital pixels convert to analog display elements. Taking the special case of digital movies to represent all of Digital Light (his term for pictures constructed of pixels), and drawing on his decades of work in the field, Smith approaches his subject from multiple angles--art, technology, entertainment, business, and history. A Biography of the Pixel is essential reading for anyone who has watched a video on a cell phone, played a videogame, or seen a movie.

Exam board: SQA Level: Higher Subject: Computing Science First teaching: September 2018 First exam: Summer 2019 Practice makes permanent. Feel confident and prepared for the SQA Higher Computing Science exam with this two-in-one book, containing practice questions for every topic, plus

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two full practice papers - all written by an experienced marker. - Choose which topics you want to revise: A simple grid enables you to pick particular areas of the course that you want to answer questions on, with solutions provided at the back of the book - Remember more in your exam: Repeated and extended practice will give you a secure knowledge of the key areas of the course (software design and development; computer systems; database design and development; web design and development) Familiarise yourself with the exam paper: Both practice papers mirror the language and layout of the real SQA papers; complete them in timed, exam-style conditions to increase your confidence before the exams - Find out how to achieve a better grade: Answers to the practice papers have commentaries for each question, with tips on writing successful answers and avoiding common mistakes Fully up to date with SQA's requirements The questions, mark schemes and guidance in this practice book match the requirements of the revised SQA Higher Computing Science specification for examination from 2019 onwards.

Please note this title is suitable for any student studying: Exam Board: AQA Level: GCSE Subject: Mathematics First teaching: September 2015 First exams: June 2017 AQA GCSE Maths, Foundation Student Book has been approved by AQA and

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specially written by a team of maths experts for the Foundation tier of AQA's 2015 GCSE specification. Designed to fully support the new style of assessment, the book adopts a clear style to focus on delivering exam success via the careful development of fluency and problem solving practice. Powered by MyMaths the book links directly to the ever popular web site offering students a further source of appropriate support.

This book contains the thoroughly refereed post-conference proceedings of the 14th Information Hiding Conference, IH 2012, held in Berkeley, CA, USA, in May 2012. The 18 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on multimedia forensics and counter-forensics, steganalysis, data hiding in unusual content, steganography, covert channels, anonymity and privacy, watermarking, and fingerprinting.

During the past decade there has been an explosion in computation and information technology. With it have come vast amounts of data in a variety of fields such as medicine, biology, finance, and marketing. The challenge of understanding these data has led to the development of new tools in the field of statistics, and spawned new areas such as data mining, machine learning, and bioinformatics. Many of these tools have common underpinnings but are often expressed with different terminology. This book

describes the important ideas in these areas in a common conceptual framework. While the approach is statistical, the emphasis is on concepts rather than mathematics. Many examples are given, with a liberal use of color graphics. It should be a valuable resource for statisticians and anyone interested in data mining in science or industry. The book's coverage is broad, from supervised learning (prediction) to unsupervised learning. The many topics include neural networks, support vector machines, classification trees and boosting---the first comprehensive treatment of this topic in any book. This major new edition features many topics not covered in the original, including graphical models, random forests, ensemble methods, least angle regression & path algorithms for the lasso, non-negative matrix factorization, and spectral clustering. There is also a chapter on methods for "wide" data (p bigger than n), including multiple testing and false discovery rates. Trevor Hastie, Robert Tibshirani, and Jerome Friedman are professors of statistics at Stanford University. They are prominent researchers in this area: Hastie and Tibshirani developed generalized additive models and wrote a popular book of that title. Hastie co-developed much of the statistical modeling software and environment in R/S-PLUS and invented principal curves and surfaces. Tibshirani proposed the lasso and is co-author of the very successful *An Introduction to the Bootstrap*.

Friedman is the co-inventor of many data-mining tools including CART, MARS, projection pursuit and gradient boosting.

Help students to build their subject knowledge and understanding with activities, guidance and assessment preparation tailored to the 2017 OCR requirements and brought to you by subject specialist and OCR's Publishing Partner for GCSE Psychology. - Prepare students for assessment with skills-building activities and practice questions developed for the new specification. - Progressively develop students' subject knowledge through accessible diagrams and key content summaries that aid understanding and help weaker students access the main points. - Build conceptual understanding and critical thinking skills with a wealth of targeted activities. - Extend learning and enhance responses with extension questions, stimulus material and suggestions for further reading. - Consolidate understanding of technical vocabulary and core concepts through accessible explanations of key terms. Contents Introduction 1. Criminal Psychology 2. Development 3. Psychological problems 4. Social influence 5. Memory 6. Sleep and Dreaming 7. Research Methods Answers

The most student-friendly and engaging resource for the 2016 Edexcel GCSE Geography B specification, this brand new course is written to match the

demands of the specification. As well as providing thorough and rigorous coverage of the spec, this book is designed to engage students in their learning and to motivate them to progress.

The Great Escape for the Great War: the astonishing true story of two World War I prisoners who pulled off one of the most ingenious escapes of all time. “Fox unspools Jones and Hill’s delightfully elaborate scheme in nail-biting episodes that advance like a narrative Rube Goldberg machine.”—The New York Times Book Review Imprisoned in a remote Turkish POW camp during World War I, having survived a two-month forced march and a terrifying shootout in the desert, two British officers, Harry Jones and Cedric Hill, join forces to bamboozle their iron-fisted captors. To stave off despair and boredom, Jones takes a handmade Ouija board and fakes elaborate séances for his fellow prisoners. Word gets around, and one day an Ottoman official approaches Jones with a query: Could Jones contact the spirit world to find a vast treasure rumored to be buried nearby? Jones, a trained lawyer, and Hill, a brilliant magician, use the Ouija board—and their keen understanding of the psychology of deception—to build a trap for their captors that will ultimately lead them to freedom. A gripping nonfiction thriller, *The Confidence Men* is the story of one of the only known con games played for a good cause—and of a profound but unlikely friendship. Had it not been for “the Great War,”

Jones, the Oxford-educated son of a British lord, and Hill, a mechanic on an Australian sheep ranch, would never have met. But in pain, loneliness, hunger, and isolation, they formed a powerful emotional and intellectual alliance that saved both of their lives. Margalit Fox brings her “nose for interesting facts, the ability to construct a taut narrative arc, and a Dickens-level gift for concisely conveying personality” (Kathryn Schulz, New York) to this tale of psychological strategy that is rife with cunning, danger, and moments of high farce that rival anything in *Catch-22*.

Practise for your SQA exams with three specially-commissioned Hodder Gibson Practice Exam Papers. - Practise with model papers written and checked by experienced markers and examiners - Get extra advice with specially-written study-skills guidance sections - Gain vital extra marks and avoid common mistakes with examiner tips

A student-friendly and engaging resource for the 2016 Edexcel GCSE Geography B specification, this brand new course is written to match the demands of the specification. As well as providing thorough and rigorous coverage of the spec, this book is designed to engage students in their learning and to motivate them to progress.

The Handbook of Optical and Laser Scanning reveals the fundamentals of controlling light beam deflection, factors in image fidelity and quality, and

the newest technological developments currently impacting scanner system design and applications. This highly practical reference features a logical chapter organization, authoritative yet accessible w This open access book is the first major publication on the topic of “Interdisciplinary Mathematics Education” and arose from the work of the first International Topic Study Group of the same name at the ICME-13 conference in Hamburg in 2016. It offers extensive theoretical insights, empirical research, and practitioner accounts of interdisciplinary mathematics work in STEM and beyond (e.g. in music and the arts). Scholars and practitioners from four continents contributed to this comprehensive book, and present studies on: the conceptualizations of interdisciplinarity; implementation cases at schools and tertiary institutions; teacher education; and implications for policy and practice. Each chapter, and the book itself, closes with an assessment of the most significant aspects that those involved in policy and practice, as well as future researchers, should take into account.

Welcome to the second IEEE Pacific Rim Conference on Multimedia (IEEE PCM 2001) held in Zhongguanchun, Beijing, China, October 22 24, 2001. Building upon the success of the inaugural IEEE PCM 2000 in Sydney in December 2000, the second PCM again brought together the researchers, developers, practitioners, and educators of multimedia in the Pacific area. Theoretical breakthroughs and practical systems were presented at this conference, thanks to the sponsorship by the IEEE Circuit and Systems Society, IEEE Signal Processing

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Society, China Computer Foundation, China Society of Image and Graphics, National Natural Science Foundation of China, Tsinghua University, and Microsoft Research, China. IEEE PCM 2001 featured a comprehensive program including keynote talks, regular paper presentations, posters, demos, and special sessions. We received 244 papers and accepted only 104 of them as regular papers, and 53 as poster papers. Our special session chairs, Shin'ichi Satoh and Mohan Kankanhalli, organized 6 special sessions. We acknowledge the great contribution from our program committee members and paper reviewers who spent many hours reviewing submitted papers and providing valuable comments for the authors. The conference would not have been successful without the help of so many people. We greatly appreciated the support of our honorary chairs: Prof. Sun Yuan Kung of Princeton University, Dr. Ya Qin Zhang of Microsoft Research China, and Prof.

Exam Board: WJEC Level: GCSE Subject: Science First Teaching: September 2016 First Exam: Summer 2018 Target success in Science with this proven formula for effective, structured revision; key content coverage is combined with exam-style tasks and practical tips to create a revision guide that students can rely on to review, strengthen and test their knowledge. With My Revision Notes, every student can: - Plan and manage a successful revision programme using the topic-by-topic planner - Consolidate subject knowledge by working through clear and focused content coverage - Test understanding and identify areas for improvement with

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regular 'Now Test Yourself' tasks and answers - Improve exam technique through practice questions, expert tips and examples of typical mistakes to avoid - Get exam ready with extra quick quizzes and answers to the practice questions available online Please note that some of the quizzes from the WJEC GCSE My Revision Notes series are also used in the WJEC GCSE Teaching and Learning resources.

Welcome to the proceedings of the 10th Pacific Rim Conference on Multimedia (PCM 2009) held in Bangkok, Thailand, December 15-18, 2009. Since its inception in 2000, PCM has rapidly grown into a major conference on multimedia in the Asia- Pacific Rim region and has built up its reputation around the world. Following the success of the preceding conferences, PCM 2008 in Taiwan, PCM 2007 in Hong Kong, PCM 2006 in China, PCM 2005 in Korea, PCM 2004 in Japan, PCM 2003 in Singapore, PCM 2002 in Taiwan, PCM 2001 in China, and PCM 2000 in Australia, the tenth PCM brought researchers, developers, practitioners, and educators together to disseminate their new discoveries in the field of multimedia. Theoretical breakthroughs and practical systems were presented at this conference, thanks to the support of Naresuan University, Mahanakorn University of Technology, and the IEEE Thailand Section. PCM 2009 featured a comprehensive program including keynote talks, regular paper presentations, posters, and special sessions. We received 171 papers from 16 countries including Australia, Sweden, Germany, Italy, Iran, France, Canada, China, Japan, Korea, Malaysia, Singapore, Taiwan, Hong Kong, the UK, and the USA. After a

rigorous review process, we accepted only 67 oral presentations and 45 poster presentations. Four special sessions were also organized by world-leading researchers.

Digital Radiography has been firmly established in diagnostic radiology during the last decade. Because of the special requirements of high contrast and spatial resolution needed for roentgen mammography, it took some more time to develop digital mammography as a routine radiological tool. Recent technological progress in detector and screen design as well as increased experience with computer applications for image processing have now enabled Digital Mammography to become a mature modality that opens new perspectives for the diagnosis of breast diseases. The editors of this timely new volume Prof. Dr. U. Bick and Dr. F. Diekmann, both well-known international leaders in breast imaging, have for many years been very active in the frontiers of theoretical and translational clinical research, needed to bring digital mammography finally into the sphere of daily clinical radiology. I am very much indebted to the editors as well as to the other internationally recognized experts in the field for their outstanding state of the art contributions to this volume. It is indeed an excellent handbook that covers in depth all aspects of Digital Mammography and thus further enriches our book series Medical Radiology. The highly informative text as well as the numerous well-chosen superb illustrations will enable certified radiologists as well as radiologists in training to deepen their knowledge in modern breast imaging. This book constitutes the refereed proceedings of the

26th Symposium of the German Association for Pattern Recognition, DAGM 2004, held in Tübingen, Germany in August/September 2004. The 22 revised papers and 48 revised poster papers presented were carefully reviewed and selected from 146 submissions. The papers are organized in topical sections on learning, Bayesian approaches, vision and faces, vision and motion, biologically motivated approaches, segmentation, object recognition, and object recognition and synthesis.

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Though it incorporates much new material, this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained.

For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and

using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use:

- IPython and Jupyter: provide computational environments for data scientists using Python
- NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python
- Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python
- Matplotlib: includes capabilities for a flexible range of data visualizations in Python
- Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms

High performance computing consumes and generates vast amounts of data, and the storage, retrieval, and transmission of this data are major obstacles to effective use of computing power. Challenges inherent in all of these operations are security, speed, reliability, authentication and reproducibility. This workshop focused on a wide variety of technical results aimed at meeting these challenges. Topics ranging from the mathematics of coding theory to the practicalities of copyright preservation for Internet resources drew spirited discussion and interaction among experts in diverse but related fields. We hope this volume contributes to continuing this dialogue.

This two-volume set (CCIS 201 and CCIS 202) constitutes the refereed proceedings of the International Conference on Computer Science and Education, CSE 2011, held in Qingdao, China, in July 2011. The 164 revised full papers presented in both volumes were

carefully reviewed and selected from a large number of submissions. The papers address a large number of research topics and applications: from artificial intelligence to computers and information technology; from education systems to methods research and other related issues; such as: database technology, computer architecture, software engineering, computer graphics, control technology, systems engineering, network, communication, and other advanced technology, computer education, and life-long education.

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. The book focuses on both theory and applications in the broad areas of communication technology, computer science and information security. This two volume book

contains the Proceedings of International Conference on Advanced Computing and Intelligent Engineering. These volumes bring together academic scientists, professors, research scholars and students to share and disseminate information on knowledge and scientific research works related to computing, networking, and informatics to discuss the practical challenges encountered and the solutions adopted. The book also promotes translation of basic research into applied investigation and convert applied investigation into practice.

This book constitutes the refereed proceedings of the 8th International Conference on Information Security Practice and Experience, ISPEC 2012, held in Hangzhou, China, in April 2012. The 20 revised full papers presented together with 7 work-in-progress papers were carefully reviewed and selected from 109 submissions. The papers are organized in topical sections on digital signatures, public key cryptography, cryptanalysis, differential attacks, oblivious transfer, internet security, key management, applied cryptography, pins, fundamentals, fault attacks, and key recovery.

In 2011, I began creating online tutorial videos on Youtube, with a vision to share my GCSE expertise in English language and literature. As I write, these videos have been viewed over 10 million times across 214 different nations. My GCSE English Youtube channel has over 60,000 subscribers. To accompany these videos, I have published over 20

revision guide eBooks-one of which you are currently looking at! My guide to the previous GCSEs in English language and literature sat at the top of the Amazon bestseller's list for over 45 weeks and achieved huge acclaim; this book aims to build on those strengths. In this ebook, you'll receive detailed guidance on every question in the AQA GCSE English Language exams. Please note that this ebook is not endorsed by or affiliated to any exam boards; I am simply an experienced teacher using my expertise to help students. However, if you read some of the 100+ reviews for this guide, you will see that it has already helped students, teachers and parents across the UK. As an extra bonus, this ebook contains links to five special video tutorials which are only available to those who purchase this guide. These links appear later in the text. I hope you enjoy the ebook. You should also purchase the accompanying eBook which covers the English Literature exams.

When Joe tells a local news reporter exactly what he would do if he were leader of the country, the video goes viral and Joe's speech becomes famous all over the world! Before long, people are calling for the current leader to resign and give someone else a go . . . and that's how an ordinary boy like Joe ended up with the most extraordinary job. Now the fun can really start . . . Hats for cats! Pet pigs for all! Banana shaped buses! Swimming pools on trains! A hilarious

story of one boy's meteoric rise to power!

Special edition slipcase edition of John Green's Paper Towns, with pop-up paper town. From the bestselling author of The Fault in our Stars. Quentin Jacobsen has always loved Margo Roth Spiegelman, for Margo (and her adventures) are the stuff of legend at their high school. So when she one day climbs through his window and summons him on an all-night road trip of revenge he cannot help but follow. But the next day Margo doesn't come to school and a week later she is still missing. Q soon learns that there are clues in her disappearance . . . and they are for him. But as he gets deeper into the mystery - culminating in another awesome road trip across America - he becomes less sure of who and what he is looking for. Masterfully written by John Green, this is a thoughtful, insightful and hilarious coming-of-age story.

CSIE 2011 is an international scientific Congress for distinguished scholars engaged in scientific, engineering and technological research, dedicated to build a platform for exploring and discussing the future of Computer Science and Information Engineering with existing and potential application scenarios. The congress has been held twice, in Los Angeles, USA for the first and in Changchun, China for the second time, each of which attracted a large number of researchers from all over the world. The congress turns out to develop a spirit of cooperation

that leads to new friendship for addressing a wide variety of ongoing problems in this vibrant area of technology and fostering more collaboration over the world. The congress, CSIE 2011, received 2483 full paper and abstract submissions from 27 countries and regions over the world. Through a rigorous peer review process, all submissions were refereed based on their quality of content, level of innovation, significance, originality and legibility. 688 papers have been accepted for the international congress proceedings ultimately.

This book presents the most interesting talks given at ISSE 2004 - the forum for the interdisciplinary discussion of how to adequately secure electronic business processes. The topics include: Corporate Governance and why security implies to control the enterprise - Risk Management and how to quantify security threats - Secure Computing and how it will change the way we trust computers - Digital Rights Management and the protection of corporate information. Adequate information security is one of the basic requirements of all electronic business processes. It is crucial for effective solutions that the possibilities offered by security technology can be integrated with the commercial requirements of the applications. The reader may expect state-of-the-art: best papers of the Conference ISSE 2004.

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