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KEY=3 - BURNETT GARZA

Mathematics for Machine Learning

[Cambridge University Press](#) Distills key concepts from linear algebra, geometry, matrices, calculus, optimization, probability and statistics that are used in machine learning.

Workbook with key (71 p.)

R for Data Science

Import, Tidy, Transform, Visualize, and Model Data

"O'Reilly Media, Inc." Learn how to use R to turn raw data into insight, knowledge, and understanding. This book introduces you to R, RStudio, and the tidyverse, a collection of R packages designed to work together to make data science fast, fluent, and fun. Suitable for readers with no previous programming experience, R for Data Science is designed to get you doing data science as quickly as possible. Authors Hadley Wickham and Garrett Golemund guide you through the steps of importing, wrangling, exploring, and modeling your data and communicating the results. You'll get a complete, big-picture understanding of the data science cycle, along with basic tools you need to manage the details. Each section of the book is paired with exercises to help you practice what you've learned along the way. You'll learn how to: Wrangle—transform your datasets into a form convenient for analysis Program—learn powerful R tools for solving data problems with greater clarity and ease Explore—examine your data, generate hypotheses, and quickly test them Model—provide a low-dimensional summary that captures true "signals" in your dataset Communicate—learn R Markdown for integrating prose, code, and results

Hands-on Scala Programming: Learn Scala in a Practical, Project-Based Way

Hands-on Scala teaches you how to use the Scala programming language in a practical, project-based fashion. This book is designed to quickly teach an existing programmer everything needed to go from "hello world" to building production applications like interactive websites, parallel web crawlers, and distributed systems in Scala. In the process you will learn how to use the Scala language to solve challenging problems in an elegant and intuitive manner.

The Future of Productivity

[OECD Publishing](#) This book addresses the rising productivity gap between the global frontier and other firms, and identifies a number of structural impediments constraining business start-ups, knowledge diffusion and resource allocation (such as barriers to up-scaling and relatively high rates of skill mismatch).

Decolonizing Methodologies

Research and Indigenous Peoples

[Bloomsbury Publishing](#) 'A landmark in the process of decolonizing imperial Western knowledge.' Walter D. Mignolo, Duke University To the colonized, the term 'research' is conflated with European colonialism; the ways in which academic research has been implicated in the throes of imperialism remains a painful memory. This essential volume explores intersections of imperialism and research - specifically, the ways in which imperialism is embedded in disciplines of knowledge and tradition as 'regimes of truth.' Concepts such as 'discovery' and 'claiming' are discussed and an argument presented that the decolonization of research methods will help to reclaim control over indigenous ways of knowing and being. Now in its eagerly awaited second edition, this bestselling book has been substantially revised, with new case-studies and examples and important additions on new indigenous literature, the role of research in indigenous struggles for social justice, which brings this essential volume urgently up-to-date.

The Quick Python Book

[Manning Publications Company](#) Introduces the programming language's syntax, control flow, and basic data structures and covers its interaction with applications and magement of large collections of code.

Swahili Grammar and Workbook

[Routledge](#) Swahili Grammar and Workbook provides a practical and comprehensive companion to Swahili grammar, filling in gaps left by other textbooks. Presenting the essentials of Swahili grammar in a highly accessible fashion, it reduces complex language topics to helpful rules and mnemonic aids, enabling maximum grammar retention and accurate usage. Grammar points are followed by multiple examples and exercises, allowing students to consolidate and practice their learning. No prior knowledge of linguistic terminology is required. Key features include: Twenty five language notes covering key topics such as: personal pronouns; the Swahili noun class system; special class combinations; the imperative, the subjunctive, and the conditional moods; the use of comparatives; the use of monosyllabic verbs; the passive form and various other forms of verb extensions; the relative clause Clear, detailed and jargon-free grammatical explanations supported by an assortment of helpful diagrams, charts and tables and many relevant and up-to-date examples A wide range of communication-oriented exercises to reinforce learning and develop students' ability to use Swahili actively Audio files to support pronunciation practice, clearly linked to relevant sections of the book and available for free download at <http://www.routledge.com/books/details/9781138808263/> Four appendices, Swahili-English and English-Swahili vocabulary lists, a bibliography and an index presented at the back of the book for easy access to information. Written by a highly experienced instructor, Swahili Grammar and Workbook will be an essential resource for all students and teachers of Swahili. It is suitable for use both as a companion reference text in language courses and as a standalone text in independent grammar classes.

Designing Data-Intensive Applications

The Big Ideas Behind Reliable, Scalable, and Maintainable Systems

"O'Reilly Media, Inc." Data is at the center of many challenges in system design today. Difficult issues need to be figured out, such as scalability, consistency, reliability, efficiency, and maintainability. In addition, we have an overwhelming variety of tools, including relational databases, NoSQL datastores, stream or batch processors, and message brokers. What are the right choices for your application? How do you make sense of all these buzzwords? In this practical and comprehensive guide, author Martin Kleppmann helps you navigate this diverse landscape by examining the pros and cons of various technologies for processing and storing data. Software keeps changing, but the fundamental principles remain the same. With this book, software engineers and architects will learn how to apply those ideas in practice, and how to make full use of data in modern applications. Peer under the hood of the systems you already use, and learn how to use and operate them more effectively Make informed decisions by identifying the strengths and weaknesses of different tools Navigate the trade-offs around consistency, scalability, fault tolerance, and complexity Understand the distributed systems research upon which modern databases are built Peek behind the scenes of major online services, and learn from their architectures

Ant Colony Optimization

[MIT Press](#) An overview of the rapidly growing field of ant colony optimization that describes theoretical findings, the major algorithms, and current applications. The complex social behaviors of ants have been much studied by science, and computer scientists are now finding that these behavior patterns can provide models for solving difficult combinatorial optimization problems. The attempt to develop algorithms inspired by one aspect of ant behavior, the ability to find what computer scientists would call shortest paths, has become the field of ant colony optimization (ACO), the most successful and widely recognized algorithmic technique based on ant behavior. This book presents an overview of this rapidly

growing field, from its theoretical inception to practical applications, including descriptions of many available ACO algorithms and their uses. The book first describes the translation of observed ant behavior into working optimization algorithms. The ant colony metaheuristic is then introduced and viewed in the general context of combinatorial optimization. This is followed by a detailed description and guide to all major ACO algorithms and a report on current theoretical findings. The book surveys ACO applications now in use, including routing, assignment, scheduling, subset, machine learning, and bioinformatics problems. AntNet, an ACO algorithm designed for the network routing problem, is described in detail. The authors conclude by summarizing the progress in the field and outlining future research directions. Each chapter ends with bibliographic material, bullet points setting out important ideas covered in the chapter, and exercises. Ant Colony Optimization will be of interest to academic and industry researchers, graduate students, and practitioners who wish to learn how to implement ACO algorithms.

Oxford Exam Excellence

[OUP Oxford](#) All key exam topics and vocabulary covered. Practice of all main test task types in Reading, Listening, Use of English, Writing, and Speaking. Exam techniques, preparation strategies, and useful study tips. Multi-ROM containing recorded material for the Listening tasks and tapescripts. Word Bank with key vocabulary, Speaking Bank with useful communicative phrases, and Writing Bank with model texts and advice. Smart answer key that explains why an answer is correct.

Ikigai

The Japanese secret to a long and happy life

[Random House](#) **THE INTERNATIONAL BESTSELLER** We all have an ikigai. It's the Japanese word for 'a reason to live' or 'a reason to jump out of bed in the morning'. It's the place where your needs, desires, ambitions, and satisfaction meet. A place of balance. Small wonder that finding your ikigai is closely linked to living longer. Finding your ikigai is easier than you might think. This book will help you work out what your own ikigai really is, and equip you to change your life. You have a purpose in this world: your skills, your interests, your desires and your history have made you the perfect candidate for something. All you have to do is find it. Do that, and you can make every single day of your life joyful and meaningful. _____ 'I read it and it's bewitched me ever since. I'm spellbound.' Chris Evans 'A refreshingly simple recipe for happiness.' Stylist 'Ikigai gently unlocks simple secrets we can all use to live long, meaningful, happy lives. Warm, patient, and kind, this book pulls you gently along your own journey rather than pushing you from behind.' Neil Pasricha, bestselling author of *The Happiness Equation*

New Headway: Pre-Intermediate Fourth Edition: Student's Book

[OUP Oxford](#)

Atlas of the Heart

Mapping Meaningful Connection and the Language of Human Experience

[Random House](#) In her latest book, five-time #1 New York Times bestselling author Dr Brené Brown, writes, "If we want to find the way back to ourselves and each other, we need language and the grounded confidence to both tell our stories, and to be stewards of the stories that we hear. This is the framework for meaningful connection." In *Atlas of the Heart*, Brown takes us on a journey through 87 of the emotions and experiences that define what it means to be human. As she maps the necessary skills and lays out an actionable framework for meaningful connection, she gives us the language and tools to access a universe of new choices and second chances - a universe where we can share and steward the stories of our bravest and most heart-breaking moments with one another in a way that builds connection. Over the past two decades, Brown's extensive research into the experiences that make us who we are has shaped the cultural conversation and helped define what it means to be courageous with our lives. *Atlas of the Heart* draws on this research, as well as Brown's singular skills as a researcher/storyteller, to lay out an invaluable, research-based framework that shows us that naming an experience doesn't give the experience more power, it gives us the power of understanding, meaning and choice. Brown shares, "I want this to be an atlas for all of us, because I believe that, with an adventurous heart and the right maps, we can travel anywhere and never fear losing ourselves. Even when we have no idea where we are."



Textbook, simplified characters. Level 1, part 1

[Cheng & Tsui](#) Cheng & Tsui's best-loved Chinese textbook series is new, revised, and better than ever!

Edible Insects

Future Prospects for Food and Feed Security

[Food & Agriculture Org](#) Edible insects have always been a part of human diets, but in some societies there remains a degree of disdain and disgust for their consumption. Insects offer a significant opportunity to merge traditional knowledge and modern science to improve human food security worldwide. This publication describes the contribution of insects to food security and examines future prospects for raising insects at a commercial scale to improve food and feed production, diversify diets, and support livelihoods in both developing and developed countries. Edible insects are a promising alternative to the conventional production of meat, either for direct human consumption or for indirect use as feedstock. This publication will boost awareness of the many valuable roles that insects play in sustaining nature and human life, and it will stimulate debate on the expansion of the use of insects as food and feed.

ZooKeeper

Distributed Process Coordination

["O'Reilly Media, Inc."](#) Building distributed applications is difficult enough without having to coordinate the actions that make them work. This practical guide shows how Apache ZooKeeper helps you manage distributed systems, so you can focus mainly on application logic. Even with ZooKeeper, implementing coordination tasks is not trivial, but this book provides good practices to give you a head start, and points out caveats that developers and administrators alike need to watch for along the way. In three separate sections, ZooKeeper contributors Flavio Junqueira and Benjamin Reed introduce the principles of distributed systems, provide ZooKeeper programming techniques, and include the information you need to administer this service. Learn how ZooKeeper solves common coordination tasks Explore the ZooKeeper API's Java and C implementations and how they differ Use methods to track and react to ZooKeeper state changes Handle failures of the network, application processes, and ZooKeeper itself Learn about ZooKeeper's trickier aspects dealing with concurrency, ordering, and configuration Use the Curator high-level interface for connection management Become familiar with ZooKeeper internals and administration tools

The Book of Answers

[Hachette UK](#) An updated, repackaged edition of the bestselling divination tool and party favorite - ask a yes or no question, open the book, find your answer - with more than a million copies in print. Should you ask your boss for a raise? Call that cutie you met at a party? Sell your Google stock? Tell your best friend her boyfriend's cheating? The answer to these questions (and hundreds of others) is in this fun and weirdly wise little book that's impossible to put down. It's simple to use: just hold it closed in your hands and concentrate on your question for a few seconds. While visualizing or speaking your question, place one palm down on the book's front and stroke the edge of the pages back to front. When you sense the time is right, open to the page your fingers landed on and there is your answer! Fun, satisfying, and a lot less time-consuming than asking everyone you know for advice. Over 1 million copies in print!

The Sun, the Earth, and Near-earth Space

A Guide to the Sun-earth System

[Government Printing Office](#) "... Concise explanations and descriptions - easily read and readily understood - of what we know of the chain of events and processes that connect the Sun to the Earth, with special emphasis on space weather and Sun-Climate."--Dear Reader.

AMERICAN ENGLISH FILE

Workbook 2

Software-Defined Radio for Engineers

[Artech House](#) Based on the popular Artech House classic, *Digital Communication Systems Engineering with Software-Defined Radio*, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

This Is How You Lose the Time War

[Gallery / Saga Press](#) Two time-traveling agents from warring futures, working their way through the past, begin to exchange letters—and fall in love in this thrilling and romantic book from award-winning authors Amal El-Mohtar and Max Gladstone. In the ashes of a dying world, Red finds a letter marked “Burn before reading. Signed, Blue.” So begins an unlikely correspondence between two rival agents in a war that stretches through the vast reaches of time and space. Red belongs to the Agency, a post-singularity technotopia. Blue belongs to Garden, a single vast consciousness embedded in all organic matter. Their pasts are bloody and their futures mutually exclusive. They have nothing in common—save that they’re the best, and they’re alone. Now what began as a battlefield boast grows into a dangerous game, one both Red and Blue are determined to win. Because winning’s what you do in war. Isn’t it? A tour de force collaboration from two powerhouse writers that spans the whole of time and space.

Dunhuang Manuscript Culture

End of the First Millennium

[Walter de Gruyter GmbH & Co KG](#) “Dunhuang Manuscript Culture” explores the world of Chinese manuscripts from ninth-tenth century Dunhuang, an oasis city along the network of pre-modern routes known today collectively as the Silk Roads. The manuscripts have been discovered in 1900 in a sealed-off side-chamber of a Buddhist cave temple, where they had lain undisturbed for almost nine hundred years. The discovery comprised tens of thousands of texts, written in over twenty different languages and scripts, including Chinese, Tibetan, Old Uighur, Khotanese, Sogdian and Sanskrit. This study centres around four groups of manuscripts from the mid-ninth to the late tenth centuries, a period when the region was an independent kingdom ruled by local families. The central argument is that the manuscripts attest to the unique cultural diversity of the region during this period, exhibiting—alongside obvious Chinese elements—the heavy influence of Central Asian cultures. As a result, it was much less ‘Chinese’ than commonly portrayed in modern scholarship. The book makes a contribution to the study of cultural and linguistic interaction along the Silk Roads.

Numerical Algorithms

Methods for Computer Vision, Machine Learning, and Graphics

[CRC Press](#) *Numerical Algorithms: Methods for Computer Vision, Machine Learning, and Graphics* presents a new approach to numerical analysis for modern computer scientists. Using examples from a broad base of computational tasks, including data processing, computational photography, and animation, the textbook introduces numerical modeling and algorithmic design.

The Indus Valley

[Capstone](#) Uses archeological excavations to find out about the civilization of the Indus Valley.

Shadow Education

Private Supplementary Tutoring and Its Implications for Policy Makers in Asia

[Asian Development Bank](#) In all parts of Asia, households devote considerable expenditures to private supplementary tutoring. This tutoring may contribute to students' achievement, but it also maintains and exacerbates social inequalities, diverts resources from other uses, and can contribute to inefficiencies in education systems. Such tutoring is widely called shadow education, because it mimics school systems. As the curriculum in the school system changes, so does the shadow. This study documents the scale and nature of shadow education in different parts of the region. Shadow education has been a major phenomenon in East Asia and it has far-reaching economic and social implications.

AI Superpowers

China, Silicon Valley, and the New World Order

[Houghton Mifflin](#) Introduction -- China's Sputnik moment -- Copycats in the Coliseum -- China's alternate Internet universe -- A tale of two countries -- The four waves of AI -- Utopia, dystopia, and the real AI crisis -- The wisdom of cancer -- A blueprint for human co-existence with AI -- Our global AI story

American English File

[OXFORD](#) "Texts must be interesting enough for students to want to read them in their own language. Otherwise, how can we expect students to want to read them in English?" This is the authors' golden rule when they choose texts and topics for every level of American English File. It ensures you get material that learners will enjoy reading and will want to talk about. Texts such as "Could you live without money?" really help to generate opinion and discussion. They create a desire to communicate. Having created the desire, American English File then helps you to develop learners' communication skills. One way it does this is with a strong focus on pronunciation. Research shows that poor pronunciation is a major contributor to breakdowns in communication (Jennifer Jenkins: *The Phonology of English as an International Language*). American English File integrates pronunciation into every lesson - the "little and often" approach. But that's not all. The unique English File Sounds Chart puts a picture to each sound in the phonetic alphabet, so learners find it easier to remember the sounds and, ultimately, improve their pronunciation.

Ignition!

An Informal History of Liquid Rocket Propellants

[Rutgers University Press](#) This newly reissued debut book in the Rutgers University Press Classics Imprint is the story of the search for a rocket propellant which could be trusted to take man into space. This search was a hazardous enterprise carried out by rival labs who worked against the known laws of nature, with no guarantee of success or safety. Acclaimed scientist and sci-fi author John Drury Clark writes with irreverent and eyewitness immediacy about the development of the explosive fuels strong enough to negate the relentless restraints of gravity. The resulting volume is as much a memoir as a work of history, sharing a behind-the-scenes view of an enterprise which eventually took men to the moon, missiles to the planets, and satellites to outer space. A classic work in the history of science, and described as "a good book on rocket stuff...that's a really fun one" by SpaceX founder Elon Musk, readers will want to get their hands on this influential classic, available for the first time in decades.

Sentiment Analysis for Social Media

MDPI Sentiment analysis is a branch of natural language processing concerned with the study of the intensity of the emotions expressed in a piece of text. The automated analysis of the multitude of messages delivered through social media is one of the hottest research fields, both in academy and in industry, due to its extremely high potential applicability in many different domains. This Special Issue describes both technological contributions to the field, mostly based on deep learning techniques, and specific applications in areas like health insurance, gender classification, recommender systems, and cyber aggression detection.

Deep Learning on Graphs

Cambridge University Press A comprehensive text on foundations and techniques of graph neural networks with applications in NLP, data mining, vision and healthcare.

International Handbook of Computer-Supported Collaborative Learning

Springer Nature CSCL has in the past 15 years (and often in conjunction with Springer) grown into a thriving and active community. Yet, lacking is a comprehensive CSCL handbook that displays the range of research being done in this area. This handbook will provide an overview of the diverse aspects of the field, allowing newcomers to develop a sense of the entirety of CSCL research and for existing community members to become more deeply aware of work outside their direct area. The handbook will also serve as a ready reference for foundational concepts, methods, and approaches in the field. The chapters are written in such a way that each of them can be used in a stand-alone fashion while also serving as introductory readings in relevant study courses or in teacher education. While some CSCL-relevant topics are addressed in the International Handbook of the Learning Sciences and the International Handbook of Collaborative Learning, these books do not aim to present an integrated and comprehensive view of CSCL. The International Handbook of Computer-Supported Collaborative Learning covers all relevant topics in CSCL, particularly recent developments in the field, such as the rise of computational approaches and learning analytics.

To Kill A Mockingbird

Random House THE ORIGINAL TEXT 'Shoot all the Bluejays you want, if you can hit 'em, but remember it's a sin to kill a Mockingbird.' Atticus Finch gives this advice to his children as he defends the real mockingbird of this classic novel - a black man charged with attacking a white girl. Through the eyes of Scout and Jem Finch, Lee explores the issues of race and class in the Deep South of the 1930s with compassion and humour. She also creates one of the great heroes of literature in their father, whose lone struggle for justice pricks the conscience of a town steeped in prejudice and hypocrisy.

A Beneficial Ownership Implementation Toolkit

Inter-American Development Bank In 2016, the G20 called on the FATF and the Global Forum to propose ways to improve the implementation of the international standards on transparency, including on the availability of beneficial ownership information, and its international exchange. The Global Forum developed a framework of proposed actions to answer that call, including a plan to facilitate effective implementation through examples of good implementation and technical assistance. This toolkit is in furtherance of the Global Forum's commitment to support countries' effective implementation. It is intended to help jurisdictions to develop an understanding of the beneficial ownership concepts contained in the international standards of transparency and exchange of information, and for use in conjunction with technical assistance seminars. It will support policy and implementation discussions in conjunction with capacity building workshops and technical assistance activities carried out by the Global Forum Secretariat as well as other supporting international organizations.

Integrated Chinese, Level 1

Debt

The First 5,000 Years

Melville House Publishing Economic history states that money replaced a bartering system, yet there isn't any evidence to support this axiom. Anthropologist Graeber presents a stunning reversal of this conventional wisdom. For more than 5000 years, humans have used elaborate credit systems to buy and sell goods. Since the beginning of the agrarian empires, humans have been divided into debtors and creditors. Through time, virtual credit money was replaced by gold and the system as a whole went into decline. This fascinating history is told for the first time.

Grammar Advantage

A3d Impressions A course text and self-study tool for advanced learners of English for academic purposes.

English File

Student's book. Elementary

The English File fourth edition Students Book is packed full of interesting content to keep students of all abilities fully engaged and motivated. The English File fourth edition Workbook reinforces what is learned in each English File lesson, and can be used as extra practice during class, or set as homework.

The Reflective Practitioner

How Professionals Think in Action

Your Guide to Lowering Your Cholesterol with TLC :.