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The Pentateuch An Introduction to
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Quantum Physics Reinforcement Learning,
second edition **A First Course in Logic**
Chaplaincy and Spiritual Care in the
Twenty-First Century Thomas Piketty's
Capital in the Twenty-First Century An
Introduction to Politics **The New Testament**
in Its World Contribute a Verse *Metaethics*
from a First Person Standpoint **First Latin**
Steps Aesop's Fables The First Boke of the
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Introduction to Language and Linguistics The
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An Introduction to Political Communication
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Presentations Introduction to Meta-Analysis

Metaethics from a First Person Standpoint addresses in a novel format the major topics and themes of contemporary metaethics, the study of the analysis of moral thought and judgement. Metaethics is less concerned with what practices are right or wrong than with what we mean by 'right' and 'wrong.' Looking at a wide spectrum of topics including moral language, realism and anti-realism, reasons and motives, relativism, and moral progress, this book engages students and general readers in order to enhance their understanding of morality and moral discourse as cultural practices. Catherine Wilson innovatively employs a first-person narrator to report step-by-step an individual's reflections, beginning from a position of radical scepticism, on the possibility of objective moral knowledge. The reader is invited to follow along with this

reasoning, and to challenge or agree with each major point. Incrementally, the narrator is led to certain definite conclusions about 'oughts' and norms in connection with self-interest, prudence, social norms, and finally morality. Scepticism is overcome, and the narrator arrives at a good understanding of how moral knowledge and moral progress are possible, though frequently long in coming. Accessibly written, Metaethics from a First Person Standpoint presupposes no prior training in philosophy and is a must-read for philosophers, students and general readers interested in gaining a better understanding of morality as a personal philosophical quest. The ability to reason and think in a logical manner forms the basis of learning for most mathematics, computer science, philosophy and logic students. Based on the author's teaching notes at the University of Maryland and aimed at a broad audience, this text covers the fundamental topics in classical logic in an extremely clear, thorough and accurate style that is accessible to all the above. Covering propositional logic, first-order logic, and second-order logic, as well as proof theory, computability theory, and model theory, the

text also contains numerous carefully graded exercises and is ideal for a first or refresher course. Finally: an introduction that captures the excitement of the early Christians, helping today's readers to think like a first-century believer while reading the text responsibly for today. The New Testament in Its World is your passageway from the twenty-first century to the era of Jesus and the first Christians. A highly-readable, one-volume introduction placing the entire New Testament and early Christianity in its original context, it is the only such work by distinguished scholar and author N. T. (Tom) Wright. An ideal guide for students, The New Testament in Its World addresses the many difficult questions faced by those studying early Christianity. Both large and small, these questions include: What is the purpose of the New Testament? What was the first-century understanding of the kingdom? What is the real meaning of the resurrection in its original context? What really were the Gospels? Who was Paul and why are his letters so controversial? As twenty-first-century people, how do we recover the excitement of what it was like to live as Christians in the first or second centuries? In short, The New Testament in Its World brings together decades of groundbreaking research, writing, and teaching into one volume that will open readers' eyes to the larger world of the New Testament. It presents the New Testament books as historical, literary, and social phenomena located in the world of Second Temple Judaism, amidst Greco-Roman

politics and culture, and within early Christianity. Written for both classroom and personal use, the benefits of The New Testament in Its World include: A distillation of the life work of N. T. Wright on the New Testament with input from Michael Bird Historical context that situates Jesus and the early church within the history, culture, and religion of Second Temple Judaism and the Greco-Roman world Major sections on the historical Jesus, the resurrection of Jesus, and Paul's chronology and theology Surveys of each New Testament book that discuss their significance, critical topics like authorship and date, and that provide commentary on contents along with implications for the Christian life Up-to-date discussions of textual criticism and the canonization of the New Testament A concluding chapter dedicated to living the story of the New Testament Available Video and Workbook companion resources to enhance learning and experience the world of the New Testament Illustrated with visually rich pictures, maps, charts, diagrams, and artwork; plentiful sidebars provide additional explanations and insights This workbook accompanies The New Testament in Its World by N. T. Wright and Michael F. Bird. Following the textbook's structure, it offers assessment questions, exercises, and activities designed to support the students' learning experience. Reinforcing the teaching in the textbook, this workbook will not only help to enhance their understanding of the New Testament books as

historical, literary, and social phenomena located in the world of early Christianity, but also guide them to think like a first-century believer while reading the text responsibly for today. This book is intended as an introductory text for students studying a wide range of courses concerned with animal management, zoo biology and wildlife conservation, and should also be useful to zookeepers and other zoo professionals. It is divided into three parts. Part 1 considers the function of zoos, their history, how zoos are managed, ethics, zoo legislation and wildlife conservation law. Part 2 discusses the design of zoos and zoo exhibits, animal nutrition, reproduction, animal behaviour (including enrichment and training), animal welfare, veterinary care, animal handling and transportation. Finally, Part 3 discusses captive breeding programmes, genetics, population biology, record keeping, and the educational role of zoos, including a consideration of visitor behaviour. It concludes with a discussion of the role of zoos in the conservation of species in the wild and in species reintroductions. This book takes an international perspective and includes a wide range of examples of the operation of zoos and breeding programmes particularly in the UK, Europe, North America and Australasia. Visit www.wiley.com/go/rees/zoo to access the artwork from the book. This work makes available to readers without specialized training in mathematics complete proofs of the fundamental metatheorems of standard (i.e.,

basically truth-functional) first order logic. Included is a complete proof, accessible to non-mathematicians, of the undecidability of first order logic, the most important fact about logic to emerge from the work of the last half-century. Hunter explains concepts of mathematics and set theory along the way for the benefit of non-mathematicians. He also provides ample exercises with comprehensive answers. Excerpt from *Being an Introduction to the Healthful and Pleasant Exercise of Bell Ringing: In Rounds and Changes, Upon Church Bells* About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works. This book provides a clear and thorough introduction to meta-analysis, the process of synthesizing data from a series of separate studies. Meta-analysis has become a critically important tool in fields as diverse as medicine, pharmacology, epidemiology, education, psychology, business, and ecology. Introduction

to Meta-Analysis: Outlines the role of meta-analysis in the research process Shows how to compute effects sizes and treatment effects Explains the fixed-effect and random-effects models for synthesizing data Demonstrates how to assess and interpret variation in effect size across studies Clarifies concepts using text and figures, followed by formulas and examples Explains how to avoid common mistakes in meta-analysis Discusses controversies in meta-analysis Features a web site with additional material and exercises A superb combination of lucid prose and informative graphics, written by four of the world's leading experts on all aspects of meta-analysis. Borenstein, Hedges, Higgins, and Rothstein provide a refreshing departure from cookbook approaches with their clear explanations of the what and why of meta-analysis. The book is ideal as a course textbook or for self-study. My students, who used pre-publication versions of some of the chapters, raved about the clarity of the explanations and examples. David Rindskopf, Distinguished Professor of Educational Psychology, City University of New York, Graduate School and University Center, & Editor of the *Journal of Educational and Behavioral Statistics*. The approach taken by *Introduction to Meta-analysis* is intended to be primarily conceptual, and it is amazingly successful at achieving that goal. The reader can comfortably skip the formulas and still understand their application and underlying motivation. For the more statistically sophisticated reader, the relevant

formulas and worked examples provide a superb practical guide to performing a meta-analysis. The book provides an eclectic mix of examples from education, social science, biomedical studies, and even ecology. For anyone considering leading a course in meta-analysis, or pursuing self-directed study, *Introduction to Meta-analysis* would be a clear first choice. Jesse A. Berlin, ScD *Introduction to Meta-Analysis* is an excellent resource for novices and experts alike. The book provides a clear and comprehensive presentation of all basic and most advanced approaches to meta-analysis. This book will be referenced for decades. Michael A. McDaniel, Professor of Human Resources and Organizational Behavior, Virginia Commonwealth University This book argues that America's relationship with the First Amendment jeopardizes privacy, equality, fair trials and democracy. You can make large profits by trading commodities--but you'll need significant practical knowledge of the associated risks and market characteristics before you start. *A Trader's First Book on Commodities* is a simple, practical and useful guide for new commodities traders. Author Carley Garner provides specific guidance on accessing commodity markets cost-effectively, avoiding common beginners' mistakes, and improving the odds of successful, profitable trades. Drawing on her extensive experience teaching traders, Garner shows how to calculate profit, loss, and risk in commodities, and choose the best brokerage firm, service

level, data sources, and market access for your needs. She'll help you:

- Master the basics of trading commodities painlessly, avoiding beginners mistakes
- Get what you need, and prevent paying for what you don't need
- Know what you're buying, what it costs, the returns you're earning and the risk you're taking
- Predict price, manage risk, and make trades that reflect your analysis

Garner demystifies the industry's colorful language, helps you clearly understand what you're buying and selling, and walks you through the entire trading process. She concludes with a refreshingly new look at topics such as trading plans, handling margin calls, and even maintaining emotional stability as a trader.

"This book provides the type of information every trader needs to know and the type of information too many traders had to learn the hard and expensive way. Carley offers practical need-to-know, real-world trading tips that are lacking in many books on futures. It will help not only the novice trader, but seasoned veterans as well. This book will serve as a must-have reference in every trader's library." --Phil Flynn, Vice President and Senior Market analyst at PFGBest Research, and a Fox Business Network contributor

"Refreshing--It's nice to see a broker who has actually been exposed to the professional side of trading and who bridges that chasm between exchange floor trading and customer service. Carley takes the time to explain verbiage, not just throw buzz words around. A good educational

read in my opinion." --Don Bright, Director, Bright Trading, LLC "This book has the perfect name, the perfect message, and the necessary information for any beginning trader. Take this book home!" --Glen Larson, President, Genesis Financial Technologies, Inc. "As a 35-year veteran of the CME/CBOT trading floor, I can tell you...those who think they can begin trading commodities without knowing the less talked about topics that Carley discusses in *A Trader's First Book on Commodities* are sadly mistaken. Anyone who trades their own account, or would like to, should read this book." --Danny Riley, DT Trading

An *Introduction to Statistical Learning* provides an accessible overview of the field of statistical learning, an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, and more. Color graphics and real-world examples are used to illustrate the methods presented. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an

extremely popular open source statistical software platform. Two of the authors co-wrote *The Elements of Statistical Learning* (Hastie, Tibshirani and Friedman, 2nd edition 2009), a popular reference book for statistics and machine learning researchers. *An Introduction to Statistical Learning* covers many of the same topics, but at a level accessible to a much broader audience. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge statistical learning techniques to analyze their data. The text assumes only a previous course in linear regression and no knowledge of matrix algebra. This text offers an open-learning approach to Raman spectroscopy providing detail on instrumentation, applications and discussions questions throughout the book. It provides a valuable guide to assist with teaching Raman spectroscopy which is gaining attention in (analytical) chemistry, and as a consequence, teaching programs have followed. Today, education in Raman spectroscopy is often limited to theoretical aspects (e.g. selection rules), but practical aspects are usually disregarded. With these course notes, the author hopes to fill this gap and include information about Raman instrumentation and how it is interpreted. Provides a user-friendly text that tackles the theoretical background, and offers everyday tips for common practice Raman instrumentation and practical aspects, which are sometimes overlooked, are covered. Appropriate for students, and includes

summaries, text boxes, illustrating the ideas with examples from research literature or providing background information or links with other courses. Written with an open-learning approach, this book will be ideal for use as a self-study guide or as the basis of a taught course with discussion and self-assessment questions throughout the text. Includes a comprehensive bibliography to guide the reader to more specialized texts and sources.

The Pentateuch (its Greek name, but also known as the Torah by the Hebrews) consists of the first five books of the Bible: Genesis, Exodus, Leviticus, Numbers, and Deuteronomy. From Adam and Eve in the Garden, to Noah's Ark, to Moses' parting of the Red Sea, to its conclusion with the death of Moses, the Pentateuch contains some of the most important and memorable stories in Western civilization. In this richly detailed work, which has become a standard in the field, renowned biblical scholar Joseph Blenkinsopp unravels (as Harold Bloom did in *The Book of J*) the radical scholarly opinions on just where these ancient and powerful stories come from, how they were formed, and what significance they have today. In the classroom, when professors cover these books of Moses, they turn to Dr. Blenkinsopp's classic for reliable, accessible discussions of all the important details. Provides guidance on academic-style presentations for ESL students and native speakers, with students learning how to choose an appropriate topic, create effective visuals, and design a speech opening.

A comprehensive and readable introduction to the Judaism of the Second Temple period. John Cech's retelling of the classic fables. These stories are about life lessons and making choices.

Data Science: A First Introduction focuses on using the R programming language in Jupyter notebooks to perform data manipulation and cleaning, create effective visualizations, and extract insights from data using classification, regression, clustering, and inference. The text emphasizes workflows that are clear, reproducible, and shareable, and includes coverage of the basics of version control. All source code is available online, demonstrating the use of good reproducible project workflows. Based on educational research and active learning principles, the book uses a modern approach to R and includes accompanying autograded Jupyter worksheets for interactive, self-directed learning. The book will leave readers well-prepared for data science projects. The book is designed for learners from all disciplines with minimal prior knowledge of mathematics and programming. The authors have honed the material through years of experience teaching thousands of undergraduates in the University of British Columbia's DSCI100: Introduction to Data Science course.

Master Powerful Off-the-Shelf Business Solutions for AI and Machine Learning Pragmatic AI will help you solve real-world problems with contemporary machine learning, artificial intelligence, and cloud computing tools. Noah Gift demystifies all the concepts

and tools you need to get results—even if you don't have a strong background in math or data science. Gift illuminates powerful off-the-shelf cloud offerings from Amazon, Google, and Microsoft, and demonstrates proven techniques using the Python data science ecosystem. His workflows and examples help you streamline and simplify every step, from deployment to production, and build exceptionally scalable solutions. As you learn how machine language (ML) solutions work, you'll gain a more intuitive understanding of what you can achieve with them and how to maximize their value. Building on these fundamentals, you'll walk step-by-step through building cloud-based AI/ML applications to address realistic issues in sports marketing, project management, product pricing, real estate, and beyond. Whether you're a business professional, decision-maker, student, or programmer, Gift's expert guidance and wide-ranging case studies will prepare you to solve data science problems in virtually any environment. Get and configure all the tools you'll need. Quickly review all the Python you need to start building machine learning applications. Master the AI and ML toolchain and project lifecycle. Work with Python data science tools such as IPython, Pandas, Numpy, Jupyter Notebook, and Sklearn. Incorporate a pragmatic feedback loop that continually improves the efficiency of your workflows and systems. Develop cloud AI solutions with Google Cloud Platform, including TPU, Colaboratory, and Datalab services. Define Amazon Web

Services cloud AI workflows, including spot instances, code pipelines, boto, and more Work with Microsoft Azure AI APIs Walk through building six real-world AI applications, from start to finish Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details. An introduction to principles and notation of modern symbolic logic, for those with no prior courses. The structure of material follows that of Quine's *Methods of Logic*, and may be used as an introduction to that work, with sections on truth-functional logic, predicate logic, relational logic, and identity and description. Exercises are based on problems designed by authors including Quine, John Cooley, Richard Jeffrey, and Lewis Carroll. Annotation copyrighted by Book News, Inc., Portland, OR This introduction to politics is designed for first-year students in social sciences and for the general reader interested in the basics of contemporary politics. The text's various sections and lecture summaries deal with the important areas of political science, different systems of democratic government, the fall of communism and post-communist politics, as well as issues in Caribbean politics such as globalization, constitutional reform and regional integration. *An Introduction to Political Communication* explores the relationship between politics, the media and democracy in the UK, the USA and other contemporary societies. Brian McNair examines how politicians, trade unions,

pressure groups, non-governmental organizations and terrorist organizations make use of the media. Separate chapters look at political media and their effects, the work of political advertising, marketing and public relations and the communication practices of organizations at all levels, from grassroots campaigning through to governments and international bodies. Recent developments covered in the new edition include: * the re-election of New Labour in 2001 * the changes in government information and communication policy introduced by the Blair administration since 1997 * the 2000 election of George W. Bush in the United States * the NATO interventions in Kosovo and the former Yugoslavia * the implications for international political communication of September 11 * the emergence of Al-Qaida and the war on terror. Students must prove all of the theorems in this undergraduate-level text, which features extensive outlines to assist in study and comprehension. Thorough and well-written, the treatment provides sufficient material for a one-year undergraduate course. The logical presentation anticipates students' questions, and complete definitions and expositions of topics relate new concepts to previously discussed subjects. Most of the material focuses on point-set topology with the exception of the last chapter. Topics include sets and functions, infinite sets and transfinite numbers, topological spaces and basic concepts, product spaces, connectivity, and compactness.

Additional subjects include separation axioms, complete spaces, and homotopy and the fundamental group. Numerous hints and figures illuminate the text. Dover (2014) republication of the edition originally published by The Williams & Wilkins Company, Baltimore, 1975. See every Dover book in print at www.doverpublications.com This modern textbook offers an introduction to Quantum Mechanics as a theory that underlies the world around us, from atoms and molecules to materials, lasers, and other applications. The main features of the book are: Emphasis on the key principles with minimal mathematical formalism Demystifying discussions of the basic features of quantum systems, using dimensional analysis and order-of-magnitude estimates to develop intuition Comprehensive overview of the key concepts of quantum chemistry and the electronic structure of solids Extensive discussion of the basic processes and applications of light-matter interactions Online supplement with advanced theory, multiple-choice quizzes, etc. A cross between *The Promise of a Pencil* and *She Means Business*, this book from the co-founder of a charity dedicated to bringing education to students in rural Kenya demonstrates how finding your purpose can change the world and change your life. **THE WORLD IS WAITING FOR YOUR BIG DREAM!** Imagine if everyone took a few minutes each day to make the world a better place using their unique talents fueled by their deepest passions. What an amazing world we

would live in! This book is your guide to discovering your passion, living your purpose, and making a positive impact on the world. Amy McLaren's passion for world travel and education kickstarted her journey from unfulfilled schoolteacher to the purpose-driven founder of Village Impact, a charity that provides education for nearly 5,000 kids in Kenya in partnership with local communities. But this book isn't about doing exactly what Amy did or following a template to start a business or non-profit—it's about making your big dream into a reality. Learn how to:

- Feed your brain with possibility to discover your passion.
- Surround yourself with positivity and support.
- Tap into the strengths and connections you already have.
- Get out of your comfort zone and eliminate self-doubt for good.
- Trust in yourself and have faith that things will work out.
- Leave a legacy of good.

Wendy Cadge and Shelly Rambo demonstrate the urgent need, highlighted by the COVID-19 pandemic, to position the long history and practice of chaplaincy within the rapidly changing landscape of American religion and spirituality. This book provides a much-needed road map for training and renewing chaplains across a professional continuum that spans major sectors of American society, including hospitals, prisons, universities, the military, and nursing homes. Written by a team of multidisciplinary experts and drawing on ongoing research at the Chaplaincy Innovation Lab at Brandeis University, Chaplaincy and

Spiritual Care in the Twenty-First Century identifies three central competencies—individual, organizational, and meaning-making—that all chaplains must have, and it provides the resources for building those skills. Featuring profiles of working chaplains, the book positions intersectional issues of religious diversity, race, ethnicity, gender, sexuality, and other markers of identity as central to the future of chaplaincy as a profession. This book provides a very accessible introduction to a broad range of radar and electronic technologies. The subjects covered in this book range from early radar development to later technologies such as stealthy techniques, low probability of intercept radar, and machine learning. Ready to write your book? So why haven't you done it yet? If you're like most nonfiction authors, fears are holding you back. Sound familiar? Is my idea good enough? How do I structure a book? What exactly are the steps to write it? How do I stay motivated? What if I actually finish it, and it's bad? Worst of all: what if I publish it, and no one cares? How do I know if I'm even doing the right things? The truth is, writing a book can be scary and overwhelming—but it doesn't have to be. There's a way to know you're on the right path and taking the right steps. How? By using a method that's been validated with thousands of other Authors just like you. In fact, it's the same exact process used to produce dozens of big bestsellers—including David Goggins's *Can't Hurt Me*, Tiffany Haddish's *The Last Black*

Unicorn, and Joey Coleman's *Never Lose a Customer Again*. The Scribe Method is the tested and proven process that will help you navigate the entire book-writing process from start to finish—the right way. Written by 4x New York Times Bestselling Author Tucker Max and publishing expert Zach Obront, you'll learn the step-by-step method that has helped over 1,500 authors write and publish their books. Now a Wall Street Journal Bestseller itself, *The Scribe Method* is specifically designed for business leaders, personal development gurus, entrepreneurs, and any expert in their field who has accumulated years of hard-won knowledge and wants to put it out into the world. Forget the rest of the books written by pretenders. This is the ultimate resource for anyone who wants to professionally write a great nonfiction book. An introduction to Thomas Piketty's monumental work *US Nobel Prize-winner Paul Krugman described Thomas Piketty's Capital in the Twenty-First Century* as “perhaps the most important book of the last decade.” It has sparked major international debates, dominated bestseller lists and generated a level of enthusiasm—as well as intense criticism—in a way no other economic or sociological work has in a long time. Piketty has been described as a new Karl Marx and placed in the same league as the economist John Maynard Keynes. The “rock star economist's” underlying thesis is that inequality under capitalism has reached dramatic levels in the last few decades and continues to grow—and that this is not by

chance. A small elite is making itself richer and richer and acquiring ever-increasing levels of power. Given the sensational reception of Piketty's not-so-easily digested 800-page study, the question as to where the hype around the book comes from deserves to be asked. What does it get right? And what should we make of it—both of the book itself and of the criticism it has received? This introduction lays out the argument of Piketty's monumental work in a compact and understandable format, while also investigating the controversies Piketty has stirred up. In addition, the two authors demonstrate the limits, contradictions and errors of the so-called Piketty revolution. This accessible textbook is the only introduction to linguistics in which each chapter is written by an expert who teaches courses on that topic, ensuring balanced and uniformly excellent coverage of the full range of modern linguistics. Assuming no prior knowledge the text offers a clear introduction to the traditional topics of structural linguistics (theories of sound, form, meaning, and language change), and in addition provides full coverage of contextual linguistics, including separate chapters on discourse, dialect variation, language and culture, and the politics of language. There are also up-to-date separate chapters on language and the brain, computational linguistics, writing, child language acquisition, and second-language learning. The breadth of the textbook makes it ideal for introductory courses on language and linguistics offered by

departments of English, sociology, anthropology, and communications, as well as by linguistics departments. *Contribute a Verse: A Guide to First Year Composition* combines a composition rhetoric manual with grammar and documentation instruction and resources. The textbook also includes a glossary of pertinent terms and ancillary instructor resources. The central concern of this book is the analysis of verbal interaction or discourse. This first six chapters report and evaluate major theoretical advances in the description of discourse. The final chapters demonstrate how the findings of discourse analysis can be used to investigate second-language teaching and first-language acquisition and to analyse literary texts. The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In *Reinforcement Learning*, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in

shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning. 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 Grolemund 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 The Effect: An Introduction to Research Design and Causality is about research design, specifically concerning research that uses observational data to make a causal inference. It is separated into two halves, each with different approaches to that subject. The first half goes through the concepts of causality, with very little in the way of estimation. It introduces the concept of identification thoroughly and clearly and discusses it as a process of trying to isolate variation that has a causal interpretation. Subjects include heavy emphasis on data-generating processes and causal diagrams. Concepts are demonstrated with a heavy emphasis on graphical intuition and the question of what we do to data. When we “add a control variable” what does that actually do? Key Features: • Extensive code examples in R, Stata, and Python • Chapters on overlooked topics in econometrics classes: heterogeneous treatment effects, simulation and power analysis, new cutting-edge methods, and uncomfortable ignored assumptions • An easy-

to-read conversational tone • Up-to-date coverage of methods with fast-moving literatures like difference-in-differences

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