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This revised and updated edition of Language and Learning offers teachers and those interested in the topic an explicit, articulate explanation of how language can be understood. The insights that teachers gain into the way they use language themselves will have significant implications for classroom teaching practices. This idea is central to the book's approach. In a practical and readable way, Language and Learning emphasises a range of different aspects of language, including therole of language in structuring meaning; the different purposes and uses of language; differences between spoken and written forms of language; the history of the English language; language-learning capacities of children; and the learning of second languages. This new edition emphasises how language is socially constructed, how social structures are embedded in language, and the importance of the social and cultural context in shaping an individual's language. Clearly, in multicultural Australia, it is essential that teachers recognise and respect the differences arising from our diverse society. Language and Learning familiarises readers with the technical vocabulary that is required to engage in meaningful discussion about language and learning. The relevant theoretical knowledge about phonology, morphology, linguistics, grammar and syntax, discourse analysis and the stages of language learning, is placed within the context of the classroom and teaching practices. Featuring activities and discussion questions, extensive references, and further reading, and highlighting key concepts, this book remains essential reading for teachers in training and practising teachers. Are you a student about to enrol on a Problem-based Learning course? Or are you currently engaged in Problem-based Learning and want to get the most out of your course? Are you tutoring a course in Problem-based education? This book will help you understand this popular learning method. It enables students and teachers to experience the full potential of Problem-based Learning. Introduction to Problem-based Learning pays particular attention to the skills students need to operate within, as well as outside of Problem-based groups. "Learning is a key aspect of animal behavior, and central to survival. Without learning there can be no memory, no language, and no intelligence. Haselgrove looks at the nature of learning, and how it takes place. From the early experiments of Pavlov, Thorndike, and others, to the most recent studies in social learning, he traces the development of the main theories of learning in contemporary psychology, and describes the ingenious experimental approaches used to study learning in both animals and humans."--Provided by publisher. This textbook offers a comprehensive introduction to Machine Learning techniques and algorithms. This Third Edition covers newer approaches that have become highly topical, including deep learning, and auto-encoding, introductory information about temporal learning and hidden Markov models, and a much more detailed treatment of reinforcement learning. The book is written in an easy-to-understand manner with many examples and pictures, and with a lot of practical advice and discussions of simple applications. The main topics include Bayesian classifiers, nearest-neighbor classifiers, linear and polynomial classifiers, decision trees, rule-induction programs, artificial neural networks, support vector machines, boosting algorithms, unsupervised learning (including Kohonen networks and auto-encoding), deep learning, reinforcement learning, temporal learning (including long short-term memory), hidden Markov models, and the genetic algorithm. Special attention is devoted to performance evaluation, statistical assessment, and to many practical issues ranging from feature selection and feature construction to bias, context, multi-label domains, and the problem of imbalanced classes. This book is a comprehensive yet accessible introduction to learning and teaching in higher education, and an invaluable resource if you are seeking to enhance and develop your teaching in the context of the Teaching Excellence Framework (TEF). It also supports your progress towards Fellowship of the Higher Education Academy (HEA), with an overview of the UK Professional Standards Framework (UKPSF) and linking content to the framework. This book is for new and existing teachers in higher education and those teaching higher education programmes in further education colleges. As well as helping you enhance and extend your understanding of the theory and practice of learning and teaching, this book encourages you to reflect on and improve your teaching in higher education to meet the needs of a diversity of students in the changing landscape of higher education. Together with its progressive and logical sequencing of topics - covering planning and preparation; techniques, methods and resources; assessment, quality and evaluation - the book provides: • A core text and resource for new teachers in higher education undertaking postgraduate programmes in learning and teaching. • An accessible and practical introduction to the knowledge and skills required to become a confident and effective lecturer in higher education • Mapping to the HEA UK Professional Standards Framework to provide guidance and support for those working towards Fellowship of the HEA together with sample Fellowship applications • 'Pause & Reflect' boxes to reinforce your professional learning journey "This book is not only an excellent introduction to learning and teaching in university but also for those providing higher level learning in further education colleges. It is an ideal companion for lecturers and teachers undertaking postgraduate programmes in learning and teaching and also for those seeking Fellowship of the Higher Education Academy. The core message of the book is that improving teaching, learning and quality begins with teachers themselves through their own professionalism, scholarship and reflective practice." Vicky Duckworth, Reader in Education, Edge Hill University, UK "Pete Scales begins

his book by asking the question ‘What is teaching?’ and giving possible answers and raising further questions. This sets the tone for his approach in this wide-ranging almost encyclopaedic book that touches on all the topics and issues that someone new to higher education is required to address. But this introductory book is unique because Scales never loses what is his professional passion and his authorial focus - the relationship between the teacher and the student. All education is founded on the relationship between a teacher and a student and Scales provides a guide for the new higher education teacher through the confusing and confused world of higher education in order that they can remain a teacher despite institutional distractions." Dennis Hayes, Professor of Education, University of Derby, UK "This book provides a welcome and timely addition which will be of huge value to anybody with an interest in teaching and learning in higher education. It will be of particular value to those new to teaching in the higher education sector as well as more experienced staff who wish to update their skills or apply for Higher Education Academy recognition." Chris Wakeman, Head of Education and Inclusion Studies, University of Wolverhampton, UK "Explicit links to specific elements of each dimension of the UK Professional Standards Framework make this text invaluable to those producing evidence for taught routes to HEA fellowship or associate fellowship, and for those embarking on applications for FHEA based on CPD and experience. It gives good guidance to alignment of each element of the UKPSF dimensions with personal professional experiences. Peter Scales shares my dislike for the word ‘delivery’ to describe teaching and clearly explains why! The text is passionate,"readable and engaging with a logical presentation of the lived experiences of teaching in higher education.” Beverley Hale, Professor of Learning and Teaching, University of Chichester, UK This revised and expanded second edition of Created to Learn—an ECPA Gold Medallion Award finalist—shows teachers how to organize and tailor classroom instruction to fit the learning styles of their students. In a real sense, author William R. Yount takes the theories of teaching and learning and brings them to life inside the classroom. Additional content in this updated edition includes: • More information on new reasearch into learning theories, including discoveries in the field of neuroscience that provide far more detail about brain function. • New chapters on Constructivism and brain-based learning. • Updated research from Yount’s teaching experiences in other countries. • Full rewrite of original text, condensing material that has moved into other books, removing data found to be less helpful, and adding research that provides support for evolving ideas about cognitive and humanistic learning theory systems, designing instructional objectives, and the revolution in brain science. 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. Introduction to Problem-based Learning teaches students how to work with the problem-based learning method, which requires mainly self-directed learning. Particular attention is given to the necessary skills to apply this method effectively. Why Introduction to Problem-based Llearning? • comprehensible introduction in the problem-based learning method • enables students to experience the full potential of this concept • discusses the use of digital devices Introduction to Problem-based learning provides students with the necessary skills to operate within as well as outside problem-based groups. It discusses issues like: How do you take on a problem? How do you collaborate with others? How do you deal with cultural diversity? How do you lead a tutorial group? How can you organize your studies best? Special attention is given to the use of computers, tablets and internet in a problem-based environment. Are you a student about to enrol on a Problem-based Learning course? Or are you currently engaged in Problem-based Learning and want to get the most out of your course? Are you tutoring a course in Problem-based education? This book will help you understand this popular learning method. It enables students and teachers to experience the full potential of Problem-based Learning. Introduction to Problem-based Learning pays particular attention to the skills students need to operate within, as well as outside of Problem-based groups. An analysis of learning throughout the whole of life. Written as a text for both educators and carers, it demonstrates how the learning process works through life and how learning at all stages of life is best achieved. A project-based guide to the basics of deep learning. This concise, project-driven guide to deep learning takes readers through a series of program-writing tasks that introduce them to the use of deep learning in such areas of artificial intelligence as computer vision, natural-language processing, and reinforcement learning. The author, a longtime artificial intelligence researcher specializing in natural-language processing, covers feed-forward neural nets, convolutional neural nets, word embeddings, recurrent neural nets, sequence-to-sequence learning, deep reinforcement learning, unsupervised models, and other fundamental concepts and techniques. Students and practitioners learn the basics of deep learning by working through programs in Tensorflow, an open-source machine learning framework. “I find I learn computer science material best by sitting down and writing programs,” the author writes, and the book reflects this approach. Each chapter includes a programming project, exercises, and references for further reading. An early chapter is devoted to Tensorflow and its interface with Python, the widely used

programming language. Familiarity with linear algebra, multivariate calculus, and probability and statistics is required, as is a rudimentary knowledge of programming in Python. The book can be used in both undergraduate and graduate courses; practitioners will find it an essential reference. 'Introduction to type introduces you to key learning strategies and learning style information. Designed for adult learners who want to take control of their learning, it provides a comprehensive guide for enhancing learning effectiveness. Whether you are returning to school , learning on the job, or developing skills and knowledge related to your personal interests, the booklet will help you to identify your learning style and develop and apply strategies that suit your learning preferences'-- taken from Introduction. A survival guide companion for students beginning their first online or hybrid class Introduction to Online Learning introduces first-time distance learners to the realities of Web-based education and serves as the most comprehensive, practical guide to achieving success when facing online-specific barriers as well as common academic hurdles. Written by an experienced instructor, this invaluable aid shows students how to overcome challenges related to e-mail communication, technological catastrophes, staying organized on a daily basis, and more. Students learn to take advantage of the unique resources available for those enrolled in internet-based programs and to make the most of their Web-based educational experience by tailoring it to their personal strengths, needs, and learning styles. Key Features The author provides clear explanations of how to tailor research, writing, and citing sources to the online classroom, as well as when citations are necessary Concrete, original examples link the text to students' personal experiences; illustrations vividly bring material to life Screenshots and excerpts from online syllabi help students navigate their first course requirements Examples of appropriate discussion board interaction aid students in progressing in their course with confidence Self-assessments guide students in determining individual learning styles and levels of preparedness This accessible introduction shows the reader how to understand, implement, adapt, and apply Learning Classifier Systems (LCSs) to interesting and difficult problems. The text builds an understanding from basic ideas and concepts. The authors first explore learning through environment interaction, and then walk through the components of LCS that form this rule-based evolutionary algorithm. The applicability and adaptability of these methods is highlighted by providing descriptions of common methodological alternatives for different components that are suited to different types of problems from data mining to autonomous robotics. The authors have also paired exercises and a simple educational LCS (eLCS) algorithm (implemented in Python) with this book. It is suitable for courses or self-study by advanced undergraduate and postgraduate students in subjects such as Computer Science, Engineering, Bioinformatics, and Cybernetics, and by researchers, data analysts, and machine learning practitioners. ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase. -- Defines learning and shows how the learning process is studied. Clearly written and user-friendly, Introduction to the Theories of Learning places learning in its historical perspective and provides appreciation for the figures and theories that have shaped 100 years of learning theory research. The 9th edition has been updated with the most current research in the field. With Pearson's MySearchLab with interactive eText and Experiment's Tool, this program is more user-friendly than ever. Learning Goals Upon completing this book, readers should be able to: Define learning and show how the learning process is studied Place learning theory in historical perspective Present essential features of the major theories of learning with implications for educational practice Note: MySearchLab does not come automatically packaged with this text. To purchase MySearchLab, please visit: www.mysearchlab.com or you can purchase a ValuePack of the text + MySearchLab (at no additional cost). You Will Learn Python 3! Zed Shaw has perfected the world’s best system for learning Python 3. Follow it and you will succeed—just like the millions of beginners Zed has taught to date! You bring the discipline, commitment, and persistence; the author supplies everything else. In Learn Python 3 the Hard Way, you’ll learn Python by working through 52 brilliantly crafted exercises. Read them. Type their code precisely. (No copying and pasting!) Fix your mistakes. Watch the programs run. As you do, you’ll learn how a computer works; what good programs look like; and how to read, write, and think about code. Zed then teaches you even more in 5+ hours of video where he shows you how to break, fix, and debug your code—live, as he’s doing the exercises. Install a complete Python environment Organize and write code Fix and break code Basic mathematics Variables Strings and text Interact with users Work with files Looping and logic Data structures using lists and dictionaries Program design Object-oriented programming Inheritance and composition Modules, classes, and objects Python packaging Automated testing Basic game development Basic web development It’ll be hard at first. But soon, you’ll just get it—and that will feel great! This course will reward you for every minute you put into it. Soon, you’ll know one of the world’s most powerful, popular programming languages. You’ll be a Python programmer. This Book Is Perfect For Total beginners with zero programming experience Junior developers who know one or two languages Returning professionals who haven’t written code in years Seasoned professionals looking for a fast, simple, crash course in Python 3 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 This core textbook introduces the reader to the study of education itself. It invites the reader to question what education is, who it is for and what purpose it serves. Few faculty members in academic medical centers are formally prepared for their roles as teachers. This work is an introductory text designed to provide medical teachers with the core concepts of effective teaching practice and information about innovations for curriculum design, delivery and assessment. It offers brief, focused chapters with content that is assimilated easily by the reader. The topics are relevant to basic science and clinical teachers and the work does not presume readers possess prerequisite knowledge of education theory or instructional design. The authors emphasize the application of concepts to teaching practice. Topics include: Facilitating Student Learning; Teaching Large Groups; Teaching in Small Groups; Flipping the Classroom; Problem-Based Learning; Team-Based Learning; Teaching Clinical Skills; Teaching with Simulation; Teaching with Practicals and Labs; Teaching with Technological Tools; Teaching to Develop Scientific Engagement in Medical Students; Designing a Course; Establishing and Teaching Elective Courses; Designing Global Health Experiences; Assessing Student Performance; Documenting the Trajectory of Your Teaching and Teaching as Scholarship. This is a complete revision of the first edition of this work with new chapters and up to date information. Similar to the first edition, chapters were written by leaders in medical education and research who draw upon extensive professional experience and the literature on best practices in education. Although designed for teachers, the work reflects a learner-centered perspective and emphasizes outcomes for student learning. The book is accessible and visually interesting and the work contains information that is current, but not time-sensitive. Each chapter concludes with references, many include recommendations for additional reading, and the work includes an appendix with resources for medical education. Master the programming skills you need to turn raw, unfiltered data into deep insights and get ready for a data science and analytics career with this definitive guide to R Programming for Beginners! Do you want to get started learning how to program, but don't know where to begin? Are you interested in moving beyond Excel sheets and learning one of the most powerful programming language used in cutting edge research such as machine learning? If you answered yes to any of these questions, then this book might just be what you need. R can be a royal pain in the neck sometimes. Even seasoned programmers and data analysts still struggle with it. But it doesn't have to be you. In this guide, you're going to learn everything you need to do heavy data wrangling in R, with graded exercises and examples at the end to help you reinforce what you've learned. Here's a preview of what you're going to discover in R Programming for Beginners Step-by-step instructions to help you set up and install the R Environment with photos How to properly Execute R Scripts with your favorite code editor Everything you need to know about the R syntax-statements, blocks, comments, and keywords Steps to help you write your very first R script and begin your programming journey The 6 data types supported by the R programming language How to name variables and assign values to them Steps to help you write well-defined user functions effectively How to control program flow with decision making control structures and loops How to visualize data with R programming ...and lots more! Whether you're completely new to programming and have never written a single line of code before, or you're an intermediate or experienced R programmer looking to brush up on the basics, this book has everything you need to master R completely. Scroll to the top of the page and click the "Add to Cart" button to get started today! First Published in 2008. Routledge is an imprint of Taylor & Francis, an informa company. Explores the key features of brain-based teaching, provides recent research on how the brain learns, and includes brain-compatible activities to enhance readers' retention. Want to learn something well? Make media to advance knowledge and gain new ideas. You don’t have to be a communication professional to create to learn. Today, with free and low-cost digital tools, everyone can compose videos, blogs and websites, remixes, podcasts, screencasts, infographics, animation, remixes and more. By creating to learn, people internalize ideas and express information creatively in ways that may inspire others. Create to Learn is a ground-breaking book that helps learners create multimedia texts as they develop both critical thinking and communication skills. Written by Renee Hobbs, one of the foremost experts in media literacy, this book introduces a wide range of conceptual principles at the heart of multimedia composition and digital pedagogy. Its approach is useful for anyone who sees the profound educational value of creating multimedia projects in an increasingly digital and connected world. Students will become skilled multimedia communicators by learning how to gather information, generate ideas, and develop media projects using contemporary digital tools and platforms. Illustrative examples from a variety of student-produced multimedia projects along with helpful online materials offer support and boost confidence. Create to Learn will help anyone make informed and strategic communication decisions as they create media for any academic, personal or professional project. Immersing students in the world of French language and culture, MOTIFS: AN INTRODUCTION TO FRENCH, Enhanced Sixth Edition, continues to set the standard for first-year French courses. Students learn through lively, culturally authentic contexts that enable them to communicate on larger, real-life themes, such as housing, school, food, work, and relationships. Offering a systematic study of French, the MOTIFS program provides the structures, vocabulary, communication strategies, and cultural background that enable students to think critically about different points of view, to share about themselves, and to learn about others. The sixth edition maintains its most popular readings while updating others and adding new readings to foster cross-cultural comparisons. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Numerous people have been introduced to the Internet through Ernest

Ackermann's workshops. He has written a hands-on book that reflects his experiences and insights in teaching others to navigate the Internet. He teaches you how to use Internet services via step-by-step examples and covers the major World Wide Web interfaces--Mosaic, Lynx, and Netscape. A gentle introduction for newcomers. This fully updated, fourth edition of An Introduction to the Study of Education provides a comprehensive and reflective introduction to the study of education, inviting students to question what education is, who it is for and what purpose it serves. Taking the reader from the early years through to lifelong learning, it examines all forms of education and learning. This new edition includes ten completely new chapters and a step-by-step guide to essay writing. There is also a companion website to accompany the book, featuring additional chapters which can be visited at www.routledge.com/cw/matheson.This fully updated, fourth edition provides: a full exploration of the historical, sociological, philosophical and psychological roots of education; a clear focus on the individual levels of education – preschool, compulsory, post-compulsory and lifelong learning; the latest debates within special educational needs; an in-depth examination of learning styles; insights into the historical development of education and the role of, and background to, research in education; a focus on current educational practice and diversity across the United Kingdom and Ireland. Written in a clear and accessible style, this is the essential core text for all beginning students on undergraduate and postgraduate courses in Education Studies and all those interested in education today, where it came from and where it is going. Introduction to Teaching: Making a Difference in Student Learning, Second Edition is the ideal text for aspiring teachers. Acclaimed authors Gene Hall, Linda Quinn, and Donna Gollnick thoroughly prepare teacher education candidates to make a difference as teachers, presenting first-hand stories and evidence-based practices while offering a student-centered approach to learning. The authors target one of the biggest challenges facing many of today’s schools—making sure that all students are learning—and help teachers make student learning the primary focus in all that they do. From true-to-life challenges that teachers will face (high-stakes testing, student learning assessments, low teacher retention, Common Core Standards) to the inspiration and joy they will discover throughout their teaching careers, this text paints a realistic picture of the real life of a teacher. There are many reasons to be curious about the way people learn, and the past several decades have seen an explosion of research that has important implications for individual learning, schooling, workforce training, and policy. In 2000, How People Learn: Brain, Mind, Experience, and School: Expanded Edition was published and its influence has been wide and deep. The report summarized insights on the nature of learning in school-aged children; described principles for the design of effective learning environments; and provided examples of how that could be implemented in the classroom. Since then, researchers have continued to investigate the nature of learning and have generated new findings related to the neurological processes involved in learning, individual and cultural variability related to learning, and educational technologies. In addition to expanding scientific understanding of the mechanisms of learning and how the brain adapts throughout the lifespan, there have been important discoveries about influences on learning, particularly sociocultural factors and the structure of learning environments. How People Learn II: Learners, Contexts, and Cultures provides a much-needed update incorporating insights gained from this research over the past decade. The book expands on the foundation laid out in the 2000 report and takes an in-depth look at the constellation of influences that affect individual learning. How People Learn II will become an indispensable resource to understand learning throughout the lifespan for educators of students and adults. "Clearly written and user-friendly, Introduction to the Theories of Learning places learning in its historical perspective and provides appreciation for the figures and theories that have shaped 100 years of learning theory research."--Publisher. This introduction to the concepts and techniques of formal learning theory is based on a number-theoretical approach to learning and uses the tools of recursive function theory to understand how learners come to an accurate view of reality. Systems That Learn presents a mathematical framework for the study of learning in a variety of domains. It provides the basic concepts and techniques of learning theory as well as a comprehensive account of what is currently known about a variety of learning paradigms.Daniel N. Osherson and Scott Weinstein are at MIT, and Michael Stob at Calvin College. 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. Defines learning and shows how the learning process is studied. Clearly written and user-friendly, Introduction to the Theories of Learning places learning in its historical perspective and provides appreciation for the figures and theories that have shaped 100 years of learning theory research. The 9th edition has been updated with the most current research in the field. With Pearson's MySearchLab with interactive eText and Experiment's Tool, this program is more user-friendly than ever. Learning Goals Upon completing this book, readers should be able to: Define learning and show how the learning process is studied Place learning theory in historical perspective Present essential features of the major theories of learning with implications for educational practice Note: MySearchLab does not come automatically packaged with this text. To purchase MySearchLab, please visit:

www.mysearchlab.com or you can purchase a ValuePack of the text + MySearchLab (at no additional cost). In Learning to Perform. Carol Simpson Stern and Bruce Henderson introduce the art and craft of performing literary texts, including poetry, prose fiction, and drama, as well as personal narratives and ethnographic materials. They present a performance methodology that offers instruction in close reading and analysis, the development and refinement of performance skills, and the ability to think critically about and discuss a performance. As students become reacquainted with the world of the imagination and its possibilities, the insights they gain in the classroom can become the basis for achievement not only on the stage or in front of the camera but in many facets of public life. By addressing an expanded sense of text that includes cultural as well as literary artifacts, Stern and Henderson bridge the gap between oral interpretation and the more inclusive field of performance studies. A substantial appendix provides a dozen texts for performance in the classroom, including works by Jane Hamilton, Willa Cather, Henry James, E.M. Forster, Henrik Ibsen, Jane Austen, and Michael S. Bowman. An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. “Written by three experts in the field, Deep Learning is the only comprehensive book on the subject.” —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors. This self-contained introductory text on the behavior of learning automata focuses on how a sequential decision-maker with a finite number of choices responds in a random environment. Topics include fixed structure automata, variable structure stochastic automata, convergence, 0 and S models, nonstationary environments, interconnected automata and games, and applications of learning automata. A must for all students of stochastic algorithms, this treatment is the work of two well-known scientists and is suitable for a one-semester graduate course in automata theory and stochastic algorithms. This volume also provides a fine guide for independent study and a reference for students and professionals in operations research, computer science, artificial intelligence, and robotics. The authors have provided a new preface for this edition. A surprisingly simple way for students to master any subject--based on one of the world's most popular online courses and the bestselling book A Mind for Numbers A Mind for Numbers and its wildly popular online companion course "Learning How to Learn" have empowered more than two million learners of all ages from around the world to master subjects that they once struggled with. Fans often wish they'd discovered these learning strategies earlier and ask how they can help their kids master these skills as well. Now in this new book for kids and teens, the authors reveal how to make the most of time spent studying. We all have the tools to learn what might not seem to come naturally to us at first--the secret is to understand how the brain works so we can unlock its power. This book explains: Why sometimes letting your mind wander is an important part of the learning process How to avoid "rut think" in order to think outside the box Why having a poor memory can be a good thing The value of metaphors in developing understanding A simple, yet powerful, way to stop procrastinating Filled with illustrations, application questions, and exercises, this book makes learning easy and fun. Across the world, universities are transforming their teaching and learning practices to meet the challenges facing Higher Education in the 21st century. Research into teaching and learning in Higher Education has never been a more important issue. Growing numbers of academics across disciplines are conducting research in their teaching. This book presents contemporary approaches to researching university teaching and learning to address this rising demand. The author provides a much needed comprehensive yet basic approach for conducting this type of research. A perfect resource for new lecturers, professional developers, researchers and graduate students; this book provides useful and effective guidance for conducting teaching and learning research in Higher Education. Filling a clear gap in the market, this book covers all the essential methodological and theoretical bases needed to engage in Higher Education research. This book offers a refreshingly light yet serious approach to research which has proved to yield significant advances in the field, allowing new academics from any discipline to effectively conduct higher education research. Each chapter covers the following: FRAMING HIGHER EDUCATION RESEARCH Generating an ETHICAL FRAMEWORK QUALITATIVE DATA ANALYSIS FOCUS GROUP RESEARCH SEMI-STRUCTURED INTERVIEWS NARRATIVE INQUIRY ETHNOGRAPHIC APPROACHES CASE STUDY RESEARCH ACTION RESEARCH APPRECIATIVE INQUIRY PHENOMENOGRAPHY RESEARCHING THRESHOLD CONCEPTS VISUAL RESEARCH EVALUATION APPROACHES This book is an invaluable resource for anyone interested in up to date theories and methods for conducting teaching and learning research in Higher Education.

- An Introduction To Statistical Learning
- Create To Learn
- Systems That Learn
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