Technology In Action 10 Edition

Building robots is a snap with LEGO Technic Robotics! This book shows you how to use LEGO bricks and Power Functions components such as motors and remote controls to create all kinds of robots. Best of all, you don't have to learn any programming. You just need your imagination and the expert building principles that you'll find inside LEGO Technic Robotics. Author Mark Rollins teaches you the hows and whys of Technic project design. You're not just snapping pieces here and there; with LEGO Technic Robotics you're actively learning the fundamentals of good design so you can go on to create truly spectacular LEGO robot creations. From robots that run on wheels, walk on two or four legs, or move and function in ways that only you can dream up, this book will help you create your own robot army. Turn to LEGO Technic Robotics and build with real power! After you've mastered the techniques in this book, if you're looking to build more creations, check out Practical LEGO Technics, also written by Mark Rollins, and discover how to build vehicles that can roll, run, and more. Please note: the print version of this title is black & white; the eBook is full color. You can download the color diagrams in the book from http://www.apress.com/9781430249801

PROC SQL: Beyond the Basics Using SAS®, Third Edition, is a step-by-step, example-driven guide that helps readers master the language of PROC SQL. Packed with analysis and examples illustrating an assortment of PROC SQL options, statements, and clauses, this book not only covers all the basics, but it also offers extensive guidance on complex topics such as set operators and correlated subqueries. Programmers at all levels will appreciate Kirk Lafler's easy-to-follow examples, clear explanations, and handy tips to extend

their knowledge of PROC SQL. This third edition explores new and powerful features in SAS® 9.4, including topics such as: IFC and IFN functions nearest neighbor processing the HAVING clause indexes It also features two completely new chapters on fuzzy matching and data-driven programming. Delving into the workings of PROC SQL with greater analysis and discussion, PROC SQL: Beyond the Basics Using SAS®, Third Edition, explores this powerful database language using discussion and numerous real-world examples.

Using the Schoolwide Enrichment Model With Technology is an extension of a talent development model implemented in more than 2,500 schools across the U.S. and widely used internationally. More than 40 years of research and development have documented the effectiveness of the SEM approach to promoting higher level thinking skills and creative productivity. This solution-oriented book, unlike other books focused on using technology in the classroom, recognizes that digital technologies are changing and evolving at lightning speeds. Our effective skills for using technology transcend time by focusing on how to find and use digital resources and tools rather than listing the resources that already exist. Focusing on the skills that support critical thinking and problem solving, decision making, and communication, the authors seamlessly merge technology to launch students toward independent productivity. This accessible and highly practical guide is rich with examples that will change the way you think about education while providing hands-on "how-to" guidance for creating a culture of excellence and innovation in your school and classroom.

First released in the Spring of 1999, How People Learn has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching

suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do-with curricula, classroom settings, and teaching methods--to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. How People Learn examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education.

Beyond Convergence of Nano-Bio-Info-Cognitive Technologies

The Fourth Industrial Revolution

Governing Climate Change

Exploring Intercultural Communication

Pathways to Health Equity

Robot Building for Beginners, Third Edition

BDD in Action

This book examines the role of everyday technology throughout the life cycle in order to demonstrate the wide acceptance and impact of everyday technology and how it is facilitating both practitioners and patients in contemporary practices. In response, then, this text speaks to a number of audiences. Students writing for undergraduate and postgraduate dissertations/proposals will find the array of works insightful, supported with a vast number of references signposting to key texts. For academics, practitioners and prospective researchers this text offers key empirical and methodological insight that can help focus and uncover originality in their own field. We anticipate that readers will find the collection of empirical examples useful for informing their own work, but also, it attempts to ignite new discussions and arguments regarding the application and use of everyday technology for enhancing health internationally. Explores the multifaceted use and application of each 'everyday technology' that impact on diagnosis, treatment and management of individuals. Examines an array of everyday technologies and how these that can either enhance and/or hinder patient/service user

outcomes i.e. handheld devices, computer workstations, gamification and artificial intelligence. Discusses technologies that are intended to facilitate patient diagnosis, practitioner-patient relations, within an array of health contexts. Provides readers with an overview with future direction of everyday technologies and its limitations.

"I wrote this book because I love building robots. I want you to love building robots, too. It took me a while to learn about many of the tools and parts in amateur robotics. Perhaps by writing about my experiences, I can give you a head start."--David Cook Robot Building for Beginners, Third Edition provides basic, practical knowledge on getting started in amateur robotics. There is a mix of content: from serious reference tables and descriptions to personal stories and humorous bits. The robot described and built in this book is battery powered and about the size of a lunch box. It is autonomous; that is, it isn't remote controlled. The book is broken up into small chapters, suitable for bedtime (or bathroom) reading. The characteristics and purposes of each major component (resistor, transistor, wire, and motor) are described, followed by a hands-on

experiment to demonstrate. Not only does this help the reader to understand a particular piece, but it also prepares them with processes to learn new parts on their own. An appendix offers an introduction to 3D printing and parts of the robot can, as an alternative, be "printed" using a 3D printer. The master project of the book is a simple, entertaining, line-following robot.

In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social

policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

Do you like to build things? Are you ever frustrated at having to compromise your designs to fit whatever parts happen to be available? Would you like to fabricate your own parts? Build Your Own CNC Machine is the book to get you started. CNC expert Patrick Hood-Daniel and best-selling author James Kelly team up to show you how to construct your very own CNC machine. Then they go on to show you how to use it, how to document your designs in computer-aided design (CAD) programs, and how to output your designs as specifications and tool paths that feed into the CNC machine, controlling it as it builds whatever parts your imagination can dream up. Don't be intimidated by abbreviations like CNC and terms like computer-aided design. Patrick and James have chosen a CNC-machine design

that is simple to fabricate. You need only basic woodworking skills and a budget of perhaps $500 to $1,000 to spend on the wood, a router, and various other parts that you'll need. With some patience and some follow-through, you'll soon be up and running with a really fun machine that'll unleash your creativity and turn your imagination into physical reality. The authors go on to show you how to test your machine, including configuring the software. Provides links for learning how to design and mill whatever you can dream up The perfect parent/child project that is also suitable for scouting groups, clubs, school shop classes, and other organizations that benefit from projects that foster skills development and teamwork No unusual tools needed beyond a circular saw and what you likely already have in your home toolbox Teaches you to design and mill your very own wooden and aluminum parts, toys, gadgets—whatever you can dream up

Management Information Systems

Convergence of Knowledge, Technology and Society

Recommendation for Policy and Action

A Cultural History of Technology and Science

Behavior-Driven Development for the whole

software lifecycle
Communities in Action
Making Differences Ordinary

Science, Technology and Innovation in Uganda is part of the World Bank Studies series. These papers are published to communicate the results of the Bank s ongoing research and to stimulate public discussion. This study presents a unique methodology to view science, technology and innovation (STI) in developing countries. The study provides a set of cases studies drawn from a diverse range of experiences across the Ugandan private sector and offers concrete policy recommendations on how to support broader development of STI in Uganda. The study finds that of all the STI challenges facing firms, universities, and public research organizations in Uganda, the barriers to collaboration and communication are the most urgent in terms of STI priorities to address in the coming years.

Biochar is the carbon-rich product when biomass (such as wood, manure or crop residues) is heated in a closed container with little or no available air. It can be used to improve agriculture and the environment in several ways, and its stability in soil and superior nutrient-retention properties make it an ideal soil amendment to increase crop yields. In addition to this, biochar sequestration, in combination with sustainable biomass production,

can be carbon-negative and therefore used to actively remove carbon dioxide from the atmosphere, with major implications for mitigation of climate change. Biochar production can also be combined with bioenergy production through the use of the gases that are given off in the pyrolysis process. This book is the first to synthesize the expanding research literature on this topic. The book's interdisciplinary approach, which covers engineering, environmental sciences, agricultural sciences, economics and policy, is a vital tool at this stage of biochar technology development. This comprehensive overview of current knowledge will be of interest to advanced students, researchers and professionals in a wide range of disciplines.

From weaker to stronger rhetoric : literature - Laboratories - From weak points to strongholds : machines - Insiders out - From short to longer networks : tribunals of reason - Centres of calculation.

Summary BDD in Action teaches you the Behavior-Driven Development model and shows you how to integrate it into your existing development process. First you'll learn how to apply BDD to requirements analysis to define features that focus your development efforts on underlying business goals. Then, you'll discover how to automate acceptance criteria and use tests to guide and report on the development process. Along the way, you'll apply

BDD principles at the coding level to write more maintainable and better documented code. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology You can't write good software if you don't understand what it's supposed to do. Behavior-Driven Development (BDD) encourages teams to use conversation and concrete examples to build up a shared understanding of how an application should work and which features really matter. With an emerging body of best practices and sophisticated new tools that assist in requirement analysis and test automation, BDD has become a hot, mainstream practice. About the Book BDD in Action teaches you BDD principles and practices and shows you how to integrate them into your existing development process, no matter what language you use. First, you'll apply BDD to requirements analysis so you can focus your development efforts on underlying business goals. Then, you'll discover how to automate acceptance criteria and use tests to guide and report on the development process. Along the way, you'll apply BDD principles at the coding level to write more maintainable and better documented code. No prior experience with BDD is required. What's Inside BDD theory and practice How BDD will affect your team BDD for acceptance, integration, and unit testing Examples in Java, .NET, JavaScript,

and more Reporting and living documentation About the Author John Ferguson Smart is a specialist in BDD, automated testing, and software lifecycle development optimization. Table of Contents PART 1: FIRST STEPS Building software that makes a difference BDD—the whirlwind tour PART 2: WHAT DO I WANT? DEFINING REQUIREMENTS USING BDD Understanding the business goals: Feature Injection and related techniques Defining and illustrating features From examples to executable specifications Automating the scenarios PART 3: HOW DO I BUILD IT? CODING THE BDD WAY From executable specifications to rock-solid automated acceptance tests Automating acceptance criteria for the UI layer Automating acceptance criteria for non-UI requirements BDD and unit testing PART 4: TAKING BDD FURTHER Living Documentation: reporting and project management BDD in the build process

Hubris and Hybrids

Forecasting and Management of Technology

Practical Raspberry Pi

PROC SQL

Language in Action

How to Achieve Inclusive Growth

Brain, Mind, Experience, and School: Expanded Edition

This is an open access title available under the terms of a CC BY-NC-ND 4.0 International licence. It is free

to read at Oxford Scholarship Online and offered as a free PDF download from OUP and selected open access locations. Rising inequality and widespread poverty, social unrest and polarization, gender and ethnic disparities, declining social mobility, economic fragility, unbalanced growth due to technology and globalization, and existential danger from climate change are urgent global concerns of our day. These issues are intertwined. They therefore require a holistic framework to examine their interplay and bring the various strands together. Leading academic economists have partnered with experts from several international institutions to explain the sources and scale of these challenges. They gather a wide array of empirical evidence and country experiences to lay out practical policy solutions and to devise a comprehensive and unified plan of action for combatting these economic and social disparities. This authoritative book is accessible to policy makers, students, and the general public interested in how to craft a brighter future by building a sustainable, green, and inclusive society in the years ahead.

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.

Climate change governance is in a state of enormous flux. New and more dynamic forms of governing are appearing around the international climate regime centred on the United Nations Framework Convention on Climate Change

(UNFCCC). They appear to be emerging spontaneously from the bottom up, producing a more dispersed pattern of governing, which Nobel Laureate Elinor Ostrom famously described as 'polycentric'. This book brings together contributions from some of the world's foremost experts to provide the first systematic test of the ability of polycentric thinking to explain and enhance societal attempts to govern climate change. It is ideal for researchers in public policy, international relations, environmental science, environmental management, politics, law and public administration. It will also be useful on advanced courses in climate policy and governance, and for practitioners seeking incisive summaries of developments in particular sub-areas and sectors. This title is also available as Open Access on Cambridge Core.

Between the 18th and 19th centuries, Britain experienced massive leaps in technological, scientific, and economical advancement

Informed Decisions Using Data

Statistics

Media, Technology, and Globalization

How People Learn

College Physics

Beyond the Basics Using SAS, Third Edition

Managing the Digital Firm

Despite the extraordinary advances in digital and communication technology over recent years, we know very little about the way these complex systems affect everyday work and interaction. This book seeks to explore these issues

through a series of video-based field studies. It begins by discussing the introduction of basic information systems in general medical practice and ends with an exploration of interpersonal communication in advanced media spaces; in the process also looking at news production, the control room of London Underground and computer aided design in architectural practice. Social interaction forms a particular focus of these studies as they explore the way individuals use various tools and technologies and coordinate their actions and activities with each other. The authors also show how video-based field studies of work and interaction can inform the design, development and deployment of new technology, in this valuable new resource for academics, researchers and practitioners.

This book combines 20 stories from a variety of organizations with a selection of nine theories, both mainstream and emerging. The stories introduce readers to individuals talking about how they communicate today via information and communication technologies (ICTs) in business or organizational contexts. The theories, presented in accessible language, illuminate the implicit patterns in these stories. This book demonstrates how and why these technologies are used under myriad circumstances.

Practical Raspberry Pi takes you quickly through the hardware and software basics of the Raspberry Pi. Author Brendan Horan then gets you started on a series of fun and practical projects, including a simple temperature sensor, a media center, a real-time clock, and even a security monitoring device, all of which require minimal programming experience. Along with these projects, you'll learn all about the Raspberry Pi hardware, including how it can be so powerful and still so small and inexpensive, why it's so suitable as a video player, and how you can customize it for different tasks, including running different operating systems on it, including Android and

RISC OS. The Raspberry Pi is an inexpensive but relatively powerful little computer. It was designed to get kids interested in computing and programming, but it's also a great platform for hardware hackery. The projects in this book will get you deep into the hardware to show you what the Raspberry Pi can really do.

This volume aims to document the most important worldwide accomplishments in converging knowledge and technology, including converging platforms, methods of convergence, societal implications, and governance in the last ten years. Convergence in knowledge, technology, and society is the accelerating, transformative interaction among seemingly distinct scientific disciplines, technologies, and communities to achieve mutual compatibility, synergism, and integration, and through this process to create added value for societal benefit. It is a movement that is recognized by scientists and thought leaders around the world as having the potential to provide far-reaching solutions to many of today's complex knowledge, technology, and human development challenges. Four essential and interdependent convergence platforms of human activity are defined in the first part of this report: nanotechnology-biotechnology-information technology and cognitive science ("NBIC") foundational tools; Earth-scale environmental systems; human-scale activities; and convergence methods for societal-scale activities. The report then presents the main implications of convergence for human physical potential, cognition and communication, productivity and societal outcomes, education and physical infrastructure, sustainability, and innovative and responsible governance. As a whole, the report presents a new model for convergence. To effectively take advantage of this potential, a proactive governance approach is suggested. The study identifies an international opportunity to develop and apply convergence for technological, economic, environmental, and societal benefits.

The panel also suggests an opportunity in the United States for implementing a program aimed at focusing disparate R and D energies into a coherent activity - a "Societal Convergence Initiative". This study received input from leading academic, industry, government, and NGO experts from the United States, Latin America, Europe, Asia, and Australia.
Using the Schoolwide Enrichment Model With Technology
Technology in Action Complete

DNA Technology
Biochar for Environmental Management
How People Learn II
Photosynthesis in Action
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. -- Michael Sullivan's Statistics: Informed Decisions Using Data,

Fourth Edition, connects statistical concepts to students' lives, helping them to think critically, become informed consumers, and make better decisions. Throughout the book, "Putting It Together" features help students visualize the relationships among various statistical concepts. This feature extends to the exercises, providing a consistent vision of the bigger picture of statistics. This book follows the Guidelines for Assessment and Instruction in Statistics Education (GAISE), as recommended by the American Statistical Association, and emphasizes statistical literacy, use of real data and technology, conceptual understanding, and active learning.

In today's technological age, computer literacy is important for everyone, and now learning the basics is easier than ever. This title engages students by combining a unique teaching approach with rich companion media.

Management Information Systems provides comprehensive and integrative coverage of essential new technologies, information system applications, and their impact on business models and managerial decision-making in an exciting and interactive manner. The twelfth edition focuses on the major changes that have been made in information technology over the past two years, and includes new opening, closing, and Interactive Session cases.

Learn Raspberry Pi with Linux will tell you everything you need to know about the Raspberry Pi's GUI and command line so you can get started doing amazing things. You'll learn how to set up your new Raspberry Pi with a monitor, keyboard and mouse, and you'll discover that what may look unfamiliar in Linux is really very familiar. You'll find out how to connect to

the internet, change your desktop settings, and you'll get a tour of installed applications. Next, you'll take your first steps toward being a Raspberry Pi expert by learning how to get around at the Linux command line. You'll learn about different shells, including the bash shell, and commands that will make you a true power user. Finally, you'll learn how to create your first Raspberry Pi projects: Making a Pi web server: run LAMP on your own network Making your Pi wireless: remove all the cables and retain all the functionality Making a Raspberry Pi-based security cam and messenger service: find out who's dropping by Making a Pi media center: stream videos and music from your Pi Raspberry Pi is awesome, and it's Linux. And it's awesome because it's Linux. But if you've never used Linux or worked at the Linux command line before, it can be a bit daunting. Raspberry Pi is an amazing little computer with tons of potential. And Learn Raspberry Pi with Linux can be your first step in unlocking that potential.

Information and Communication Technologies in Action

The Da Vinci Inventions Book

Technology in Action, Complete

Bringing Technology Education Into K-8 Classrooms

Machine Learning in Action

Process Mining in Action

Build Your Own CNC Machine

Technology in Action, CompletePrentice Hall

This handbook contains surveys of state-of-the-art concepts, systems, applications, best practices as well as contemporary research in the intersection between IT and finance. Included are recent trends and challenges, IT

systems and architectures in finance, essential developments and case studies on management information systems, and service oriented architecture modeling. The book shows a broad range of applications, e.g. in banking, insurance, trading and in non-financial companies. Essentially, all aspects of IT in finance are covered.

Consistently practical in its coverage, the book discusses general issues related to forecasting and management; introduces a variety of methods, and shows how to apply these methods to significant issues in managing technological development. With numerous exhibits, case studies and exercises throughout, it requires only basic mathematics and includes a special technology forecasting TOOLKIT for the IBM and compatibles, along with full instructions for installing and running the program.

Human societies have not always taken on new technology in appropriate ways. Innovations are double-edged swords that transform relationships among people, as well as between human societies and the natural world. Only through successful cultural appropriation can we manage to control the hubris that is fundamental to the innovative, enterprising human spirit; and only by becoming hybrids, combining the human and the technological, will we be able to make effective use of our scientific and technological achievements. This broad cultural history of technology and science provides a range of stories and reflections

about the past, discussing areas such as film, industrial design, and alternative environmental technologies, and including not only European and North American, but also Asian examples, to help resolve the contradictions of contemporary high-tech civilization.

Handbook on Information Technology in Finance
Everyday Technologies in Healthcare
Transforming Learning Across Disciplines
Inclusive Schools in Action
The Awesome Skill
Technology in Action
LEGO Technic Robotics

This book describes process mining use cases and business impact along the value chain, from corporate to local applications, representing the state of the art in domain know-how. Providing a set of industrial case studies and best practices, it complements academic publications on the topic. Further the book reveals the challenges and failures in order to offer readers practical insights and guidance on how to avoid the pitfalls and ensure successful operational deployment. The book is divided into three parts: Part I provides an introduction to the topic from fundamental principles to key success factors, and an overview of operational use cases. As a holistic description of process mining in a business environment, this part is particularly

useful for readers not yet familiar with the topic. Part II presents detailed use cases written by contributors from a variety of functions and industries. Lastly, Part III provides a brief overview of the future of process mining, both from academic and operational perspectives. Based on a solid academic foundation, process mining has received increasing interest from operational businesses, with many companies already reaping the benefits. As the first book to present an overview of successful industrial applications, it is of particular interest to professionals who want to learn more about the possibilities and opportunities this new technology offers. It is also a valuable resource for researchers looking for empirical results when considering requirements for enhancements and further developments.
Photosynthesis in Action examines the molecular mechanisms, adaptations and improvements of photosynthesis. With a strong focus on the latest research and advances, the book also analyzes the impact the process has on the biosphere and the effect of global climate change. Fundamental topics such as harvesting light, the transport of electronics and fixing carbon are discussed. The book also reviews the latest

research on how abiotic stresses affect these key processes as well as how to improve each of them. This title explains how the process is flexible in adaptations and how it can be engineered to be made more effective. End users will be able to see the significance and potential of the processes of photosynthesis. Edited by renowned experts with leading contributors, this is an essential read for students and researchers interested in photosynthesis, plant science, plant physiology and climate change. Provides essential information on the complex sequence of photosynthetic energy transduction and carbon fixation Covers fundamental concepts and the latest advances in research, as well as real-world case studies Offers the mechanisms of the main steps of photosynthesis together with how to make improvements in these steps Edited by renowned experts in the field Presents a user-friendly layout, with templated elements throughout to highlight key learnings in each chapter

Summary Machine Learning in Action is unique book that blends the foundational theories of machine learning with the practical realities of building tools for everyday data analysis. You'll use the flexible

Python programming language to build programs that implement algorithms for data classification, forecasting, recommendations, and higher-level features like summarization and simplification. About the Book A machine is said to learn when its performance improves with experience. Learning requires algorithms and programs that capture data and ferret out the interestingor useful patterns. Once the specialized domain of analysts and mathematicians, machine learning is becoming a skill needed by many. Machine Learning in Action is a clearly written tutorial for developers. It avoids academic language and takes you straight to the techniques you'll use in your day-to-day work. Many (Python) examples present the core algorithms of statistical data processing, data analysis, and data visualization in code you can reuse. You'll understand the concepts and how they fit in with tactical tasks like classification, forecasting, recommendations, and higher-level features like summarization and simplification. Readers need no prior experience with machine learning or statistical processing. Familiarity with Python is helpful. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all

code from the book. What's Inside A no-nonsense introduction Examples showing common ML tasks Everyday data analysis Implementing classic algorithms like Apriori and Adaboos Table of Contents PART 1 CLASSIFICATION Machine learning basics Classifying with k-Nearest Neighbors Splitting datasets one feature at a time: decision trees Classifying with probability theory: naïve Bayes Logistic regression Support vector machines Improving classification with the AdaBoost meta algorithm PART 2 FORECASTING NUMERIC VALUES WITH REGRESSION Predicting numeric values: regression Tree-based regression PART 3 UNSUPERVISED LEARNING Grouping unlabeled items using k-means clustering Association analysis with the Apriori algorithm Efficiently finding frequent itemsets with FP-growth PART 4 ADDITIONAL TOOLS Using principal component analysis to simplify data Simplifying data with the singular value decomposition Big data and MapReduce

The internet has fundamentally transformed society in the past 25 years, yet existing theories of mass or interpersonal communication do not work well in understanding a digital world. Nor has this

understanding been helped by disciplinary specialization and a continual focus on the latest innovations. Ralph Schroeder takes a longer-term view, synthesizing perspectives and findings from various social science disciplines in four countries: the United States, Sweden, India and China. His comparison highlights, among other observations, that smartphones are in many respects more important than PC-based internet uses. Social Theory after the Internet focuses on everyday uses and effects of the internet, including information seeking and big data, and explains how the internet has gone beyond traditional media in, for example, enabling Donald Trump and Narendra Modi to come to power. Schroeder puts forward a sophisticated theory of the role of the internet, and how both technological and social forces shape its significance. He provides a sweeping and penetrating study, theoretically ambitious and at the same time always empirically grounded.The book will be of great interest to students and scholars of digital media and society, the internet and politics, and the social implications of big data.

Science and Technology

Science, Technology and Innovation in

Uganda
Principles, Use Cases and Outlook
How to Follow Scientists and Engineers Through Society
Advanced NXT
Harvesting Light, Generating Electrons, Fixing Carbon
Integrating Educational Technology Into Teaching

Exploring Intercultural Communication investigates the role of language in intercultural communication, paying particular attention to the interplay between cultural diversity and language practice. This second edition increases and updates the coverage on emerging key topics, including symbolic power, communicative turbulence, conversational inequality, stereotypes, racism, Nationality and Ethnicity talk and the impact and role of technology in intercultural communication. Including global examples from a range of genres, this book is an indispensable resource for students taking language and intercultural communication modules within applied linguistics, TESOL, education or communication studies courses. Long recognized in the field as the leading educational technology text, "Integrating Educational Technology into Teaching" links technology integration strategies to specific learning theories, shows pre- and in-service teachers how to plan for technology

integration, and offers opportunities to practice integrating technology by designing curriculum to meet teaching and learning needs. Carefully selected exercises, sample lessons, and recommended resources encourage teachers to reflect on their practice as they develop the insights, knowledge, and skills they need to infuse technology across all disciplines. Throughout the book, content is updated to align with the latest ISTE Standards for Educators and Students and showcases the most current tools, methods, and ideas shaping the role of technology in education. -- From product description.
Gives the educated layperson a survey of DNA by presenting a brief history of genetics, an outline of techniques, and indications of breakthroughs in cloning and other DNA advances. This book helps students, business people, lawyers, and jurists gain confidence in their ability to understand and appreciate DNA technology and human genetics.
For introductory courses in computer concepts, digital literacy, or computer literacy, often including instruction in Microsoft Office. Explore, discover, and experience technology with the interactive and adaptive Technology in Action --the book that uses technology to teach technology! This book offers a learning system that pushes the envelope of what is possible in technology, and what is helpful in teaching. Although students are more comfortable with the digital environment than ever, their

knowledge of the devices they use every day is still limited. The authors focus on tasks that students can accomplish with their devices, and skills they can apply immediately in the workplace, the classroom, and at home. This book fits the way students are learning today. Note: You are purchasing a standalone product; MyITLab does not come packaged with this content. Students, if interested in purchasing this title with MyITLab, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information

Polycentricity in Action?

Learn Raspberry Pi with Linux

Social Theory after the Internet

Science in Action

A Guide to Curricular Resources About the Designed World

Linking Theories and Narratives of Practice

Arduino Robotics

The popularity of NXT and the success of The Da Vinci Code are combined in this fascinating book. Projects for building and programming five of Leonardo's most famous inventions are covered in detail: the tank, the helicopter, the catapult, the flying machine, and the revolving bridge. This book is written for serious NXT programmers and covers the most popular programming environments available today. The book is abundantly illustrated and includes sample code and countless best-practices strategies.

Offers a ten-step plan to achieve positive academic and social outcomes for students with or without disabilities.

This book will show you how to use your Arduino to control a variety of different robots, while providing step-by-step instructions on the entire robot building process. You'll learn Arduino basics as well as the characteristics of different types of motors used in robotics. You also discover controller methods and failsafe methods, and learn how to apply them to your project. The book starts with basic robots and moves into more complex projects, including a GPS-enabled robot, a robotic lawn mower, a fighting bot, and even a DIY Segway-clone. Introduction to the Arduino and other components needed for robotics Learn how to build motor controllers Build bots from simple line-following and bump-sensor bots to more complex robots that can mow your lawn, do battle, or even take you for a ride Please note: the print version of this title is black & white; the eBook is full color.

Featuring an easy-to-follow organization and sample pages from major products, this resource will help all students become technologically literate!"--Jacket.

Learners, Contexts, and Cultures