

Power Machines N5 August 2012 Question Paper

Although governments worldwide have invested significantly in intelligent sensor network research and applications, few books cover intelligent sensor networks from a machine learning and signal processing perspective. Filling this void, *Intelligent Sensor Networks: The Integration of Sensor Networks, Signal Processing and Machine Learning* focuses on the close integration of sensing, networking, and smart signal processing via machine learning. Based on the world-class research of award-winning authors, the book provides a firm grounding in the fundamentals of intelligent sensor networks, including compressive sensing and sampling, distributed signal processing, and intelligent signal learning. Presenting recent research results of world-renowned sensing experts, the book is organized into three parts: Machine Learning—describes the application of machine learning and other AI principles in sensor network intelligence—covering smart sensor/transducer architecture and data representation for intelligent sensors Signal Processing—considers the optimization of sensor network performance based on digital signal processing techniques—including cross-layer integration of routing and application-specific signal processing as well as on-board image processing in wireless multimedia sensor networks for intelligent transportation systems Networking—focuses on network protocol design in order to achieve an intelligent sensor networking—covering energy-efficient opportunistic routing protocols for sensor networking and multi-agent-driven wireless sensor cooperation Maintaining a focus on "intelligent" designs, the book details signal processing principles in sensor networks. It elaborates on critical platforms for intelligent sensor networks and illustrates key applications—including target tracking, object identification,

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and structural health monitoring. It also includes a paradigm for validating the extent of spatiotemporal associations among data sources to enhance data cleaning in sensor networks, a sensor stream reduction application, and also considers the use of Kalman filters for attack detection in a water system sensor network that consists of water level sensors and velocity sensors.

TESTIMONIALS “One of the most important books of our times!” – Bernard Marr “An essential reading for anybody who cares about the future of work” – Arianna Huffington “This insightful and practical guidebook is instrumental for success in the Fourth Industrial Revolution” – Klaus Schwab, founder of the World Economic Forum “An insightful exploration of Intelligent Automation” – Dr. Kai-Fu Lee, Author of NYT Bestseller "AI Superpowers" “This field guide is essential reading” – Gartner “Masterful insight, this book is more relevant than ever” – HFS “This book needed to be written” – Forrester ABOUT THE BOOK This is the first book on Intelligent Automation (IA). Also called Hyperautomation, it is one of the most recent trends in the field of artificial intelligence. IA is a cutting-edge combination of methods and technologies, involving people, organizations, machine learning, low-code platforms, robotic process automation (RPA), and more. This book is for everyone – whether you are an experienced practitioner, new to the topic, or simply interested in what the future holds for enterprises, work, life, and society as a whole. Key content of the book: > What is Intelligent Automation (IA)? Why has the use of IA been expanding so rapidly? What are the benefits it unleashes for employees, companies, customers, and society? > How have leading organizations been able to harness the full potential of IA, at scale, and generate massive efficiency gains in the range of 20 to 60%? > How can IA save 10+ million lives per year, triple

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our global budget for education, eliminate hunger, help protect our planet, or increase the resilience of society to pandemics and crises? What you will get from this book: > Get the lessons learned from 100+ IA transformation successes (and failures) > Benefit from the largest publicly available library of 500+ IA use cases by industry and by business function > Gain access to insights garnered from 200+ IA industry experts Read more about this book: www.intelligentautomationbook.com and get it on Amazon:

<https://www.amazon.fr/dp/B08KFLY51Y> WHY THIS BOOK? While many books have been published on AI, machine learning, or robotics, a comprehensive reference guidebook had never yet been written on the topic of IA. Also, it seemed essential to us to work towards establishing IA as a field, with its own frameworks, use cases, methods, and critical success factors. ABOUT THE AUTHORS Pascal Bornet is a recognized global expert, thought leader, and pioneer in the field of intelligent automation (IA). He founded and led the IA practices for Mckinsey & Company and Ernst & Young (EY), where he drove hundreds of IA transformations across industries. Bornet is a member of the Forbes Technology Council, and he was awarded Global Top Voice in Technology 2019. Ian Barkin is Chief Strategy & Marketing Officer at SYKES. He is a globally recognized thought leader and veteran in the IA space. Barkin co-founded Symphony Ventures, a pure-play IA consulting company providing cutting-edge services across all sectors. In 2018, the company was acquired for US\$69 million by SYKES, a NASDAQ-listed global leader. Dr. Jochen Wirtz is Vice-Dean MBA Programmes at the National University of Singapore Business School, and Professor of Marketing. He is a well-known and highly acclaimed author with more than 20 books published, including "Services Marketing - People, Technology, Strategy". His research has been published in over 100 academic journal

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articles, and he received over 40 awards.

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

This book presents computer programming as a key method for solving mathematical problems. There are two versions of the book, one for MATLAB and one for Python. The book was inspired by the Springer book TCSE 6: A Primer on Scientific Programming with Python (by Langtangen), but the style is more accessible and concise, in keeping with the needs of engineering students. The book outlines the shortest possible path from no previous experience with programming to a set of skills that allows the students to write simple programs for solving common mathematical problems with numerical methods in engineering and science courses. The emphasis is on generic algorithms, clean design of programs, use of functions, and automatic tests for verification.

This volume of the journal contains papers presented at the International Conference on Materials Engineering and Science (IConMEAS 2018), held at Istanbul, Turkey, August 08-09, 2018 and focuses on the research results in the field of materials science for various branches of industry and construction.

Fully revised and updated, Problems in Marketing includes over 50 new problems. This varied

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and challenging collection of problems has been written as a learning aid to any marketing textbook. The problems cover a wide range of marketing practice, each problem concentrating on a single concept or technique of marketing management. Problems begin with a full introduction to the concept followed by explicit instructions for solving them. This leads directly to a series of discussion questions to further enhance the application of each problem.

Solutions are also available to lecturers by clicking on the companion website logo above.

'Raunchy, raucous...a rich, turn of the 19th century world, which reeks of human and animal variety' The Times
Is Sophie Fevvers, toast of Europe's capitals, part swan...or all fake?

Courted by the Prince of Wales and painted by Toulouse-Lautrec, she is an aerialiste extraordinaire and star of Colonel Kearney's circus. She is also part woman, part swan. Jack Walser, an American journalist, is on a quest to discover the truth behind her identity. Dazzled by his love for her, and desperate for the scoop of a lifetime, Walser has no choice but to join the circus on its magical tour through turn-of-the-nineteenth-century London, St Petersburg and Siberia. ****One of the BBC's 100 Novels That Shaped Our World****

The use of the computer in translating natural languages ranges from that of a translator's aid for word processing and dictionary lookup to that of a full-fledged translator on its own. However the obstacles to translating by means of the computer are primarily linguistic. To overcome them it is necessary to resolve the ambiguities that pervade a natural language when words and sentences are viewed in isolation. The problem then is to formalize, in the computer, these aspects of natural language understanding. The authors show how, from a linguistic point of view, one may form

some idea of what goes on inside a system's black box, given only the input (original text) and the raw output (translated text before post-editing). Many examples of English/French translation are used to illustrate the principles involved.

This investigation of the fundamental character of organizational identity and identification with an organization is arranged in the form of a provocative discussion between key scholars. The book focuses on three different paradigmatic views of identity: functionalist, interpretive and postmodern. Similarities and distinctions among these ways of understanding are explored, and numerous theoretical and practical insights are gained. The book concludes with a discussion of the relevance of identity as a construct in organizational study, and observations on conversation and theory building.

Today, switched reluctance machines (SRMs) play an increasingly important role in various sectors due to advantages such as robustness, simplicity of construction, low cost, insensitivity to high temperatures, and high fault tolerance. They are frequently used in fields such as aeronautics, electric and hybrid vehicles, and wind power generation. This book is a comprehensive resource on the design, modeling, and control of SRMs with methods that demonstrate their good performance as motors and generators.

Everything you wanted to know about industrial gas turbines for electric power generation in one source with hard-to-find, hands-on technical information.

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This book examines the societal dynamics of memory politics in Russia. Since Vladimir Putin became president, the Russian central government has increasingly actively employed cultural memory to claim political legitimacy and discredit all forms of political opposition. The rhetorical use of the past has become a defining characteristic of Russian politics, creating a historical foundation for the regime's emphasis on a strong state and centralised leadership. Exploring memory politics, this book analyses a wide range of actors, from the central government and the Russian Orthodox Church, to filmmaker and cultural heavyweight Nikita Mikhalkov and radical thinkers such as Aleksandr Dugin. In addition, in view of the steady decline in media freedom since 2000, it critically examines the role of cinema and television in shaping and spreading these narratives. Thus, this book aims to gain a better understanding of the various means through which the Russian government practices its memory politics (e.g., the role of state media) and, on the other hand, to sufficiently value the existence of alternative and critical voices and criticism that existing studies tend to overlook. Contributing to current debates in the field of memory studies and of current affairs in Russia and Eastern Europe, this book will be of interest to scholars working in the fields of Russian Studies, Cultural Memory Studies, Nationalism and National Identity, Political Communication, Film, Television and Media Studies.

Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide

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is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

The Handbook of World Families provides a cross-cultural perspective on the family by examining family life in 25 countries worldwide. The countries included in this volume are organized by six world regions including Africa, Asia/South Pacific, Europe, Latin America, the Middle East, and North America - offering readers the most thorough and balanced cross-cultural examination of world families available. Editors Bert N. Adams and Jan Trost, along with contributions by top family studies experts from around the world, ensure reliable, cutting-edge research and perspectives.

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This book critically explores forms and techniques of calculation that emerge with digital computation, and their implications. The contributors demonstrate that digital calculative devices matter beyond their specific functions as they progressively shape, transform and govern all areas of our life. In particular, it addresses such questions as: How does the drive to make sense of, and productively use, large amounts of diverse data, inform the development of new calculative devices, logics and techniques? How do these devices, logics and techniques affect our capacity to decide and to act? How do mundane elements of our physical and virtual existence become data to be analysed and rearranged in complex ensembles of people and things? In what ways are conventional notions of public and private, individual and population, certainty and probability, rule and exception transformed and what are the consequences? How does the search for 'hidden' connections and patterns change our understanding of social relations and associative life? Do contemporary modes of calculation produce new thresholds of calculability and computability, allowing for the improbable or the merely possible to be embraced and acted upon? As contemporary approaches to governing uncertain futures seek to anticipate future events, how are calculation and decision engaged anew? Drawing together different strands of cutting-edge research that is both theoretically sophisticated and empirically rich, this book makes an important contribution to several areas of scholarship, including the emerging social science field of software studies, and will be a vital resource for students and scholars alike.

Praise for the First Edition: 'It is a guide of vital importance to researchers, trainers and extension workers, especially those collaborating with communities in developing countries' - European Journal of Development Research 'There is much of value here that even

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experienced development workers might learn from.... Mikkelsen offers many insights that would be valuable to any economist undertaking field work in development' - The Australian Journal of Agricultural Economics `An enthusiastic, vibrant supplement to methodology texts.... The formulation is concise, comprehensive, yet substantial' - Business Line `Development researchers will be grateful to Mikkelsen for her laudable job in competently assessing their needs.... She provides an overview of the traditional and the new techniques and tools for field study' - Deccan Herald This completely revised version of the successful 1995 text covers a wide range of issues relating to research concepts and methods. It incorporates new lessons that have been learned regarding the merits and pitfalls of development work. Reflecting on how and why research in international development work has become a special case within the social sciences, this book provides innovative examples of participatory methods in action; methodological guidance on linking research purpose, questions and methods in qualitative and quantitative research; highlights new methods for development work and research like the Rights-based Approach, Appreciative Inquiry, the Social Capital Analysis Tool and Geomatics; emphasizes the gender perspective in development work; and discusses ethics, regulations and codes of conduct, as well as the question of encounters with `other` cultures.

Artificial intelligence (AI) has grown in presence in asset management and has revolutionized the sector in many ways. It has improved portfolio management, trading, and risk management practices by increasing efficiency, accuracy, and compliance. In particular, AI techniques help construct portfolios based on more accurate risk and return forecasts and more complex constraints. Trading algorithms use AI to devise novel trading signals and execute trades with lower transaction costs. AI also improves risk modeling and forecasting by generating insights

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from new data sources. Finally, robo-advisors owe a large part of their success to AI techniques. Yet the use of AI can also create new risks and challenges, such as those resulting from model opacity, complexity, and reliance on data integrity.

Practising Human Geography is critical introduction to disciplinary debates about the practice of human geography, that is informed by an inquiry into how geographers actually do research. In examining those methods and practices that are integral to doing geography, the text presents a theoretically-informed reflection on the construction and interpretation of geographical data - including factual and "fictional" sources; the use of core research methodologies; and the interpretative role of the researcher. Framed by an historical overview how ideas of practising human geography have changed, the following three sections offer an comprehensive and integrated overview of research methodologies. Illustrated throughout, the te

Content analysis is one of the most important but complex research methodologies in the social sciences. In this thoroughly updated Second Edition of The Content Analysis Guidebook, author Kimberly Neuendorf provides an accessible core text for upper-level undergraduates and graduate students across the social sciences. Comprising step-by-step instructions and practical advice, this text unravels the complicated aspects of content analysis.

A fresh and radical analysis of psychology's scholarly roots and its potential for the future. Through ten editions, Fox and McDonald's Introduction to Fluid Mechanics has helped students understand the physical concepts, basic principles, and analysis methods of fluid mechanics. This market-leading textbook provides a balanced, systematic approach to

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mastering critical concepts with the proven Fox-McDonald solution methodology. In-depth yet accessible chapters present governing equations, clearly state assumptions, and relate mathematical results to corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the subject. Each comprehensive chapter includes numerous, easy-to-follow examples that illustrate good solution technique and explain challenging points. A broad range of carefully selected topics describe how to apply the governing equations to various problems, and explain physical concepts to enable students to model real-world fluid flow situations. Topics include flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery, and more. To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended problems that encourage students to apply fluid mechanics principles to the design of devices and systems.

SHORTLISTED FOR THE WALTER SCOTT PRIZE FOR HISTORICAL FICTION

LONGLISTED FOR THE ORWELL PRIZE FOR POLITICAL FICTION A BOOK OF THE YEAR

IN THE TIMES, GUARDIAN, SUNDAY TIMES, DAILY EXPRESS, SCOTSMAN and

SPECTATOR Three journeys. One road. England, 1348. A gentlewoman flees an odious arranged marriage, a Scots proctor sets out for Avignon and a young ploughman in search of freedom is on his way to volunteer with a company of archers. All come together on the road to Calais. Coming in their direction from across the Channel is the Black Death, the plague that will wipe out half of the population of Northern Europe. As the journey unfolds, overshadowed by the archers' past misdeeds and clerical warnings of the imminent end of the world, the

wayfarers must confront the nature of their loves and desires. A tremendous feat of language and empathy, it summons a medieval world that is at once uncannily plausible, utterly alien and eerily reflective of our own. James Meek's extraordinary *To Calais, In Ordinary Time* is a novel about love, class, faith, loss, gender and desire - set against one of the biggest cataclysms of human history.

Praise for the First Edition ". . . an excellent textbook . . . well organized and neatly written." —Mathematical Reviews ". . . amazingly interesting . . ." —Technometrics Thoroughly updated to showcase the interrelationships between probability, statistics, and stochastic processes, *Probability, Statistics, and Stochastic Processes, Second Edition* prepares readers to collect, analyze, and characterize data in their chosen fields. Beginning with three chapters that develop probability theory and introduce the axioms of probability, random variables, and joint distributions, the book goes on to present limit theorems and simulation. The authors combine a rigorous, calculus-based development of theory with an intuitive approach that appeals to readers' sense of reason and logic. Including more than 400 examples that help illustrate concepts and theory, the Second Edition features new material on statistical inference and a wealth of newly added topics, including: Consistency of point estimators Large sample theory Bootstrap simulation Multiple hypothesis testing Fisher's exact test and Kolmogorov-Smirnov test Martingales, renewal processes, and Brownian motion One-way analysis of variance and the general linear model Extensively class-tested to ensure an accessible presentation, *Probability, Statistics, and Stochastic Processes, Second Edition* is an excellent book for courses on probability and statistics at the upper-undergraduate level. The book is also an ideal resource for scientists and engineers in the fields of statistics, mathematics, industrial

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management, and engineering.

The central question in *Work, Consumption and Culture* is whether consumption has now displaced production as the defining factor in the lives of those in the industrialized West. This book offers a comprehensive review of the key issues in the production/consumption debate, and where it might lead in the future. Key to Paul Ransome's argument is the hypothesis that affluence is the crucial factor in the shift away from work and towards consumption. Uniquely emphasizing the links between work, consumption and culture, rather than keeping each element separate, the author looks at: - the changing significance of work in society - the meaning, growth and significance of affluence - the growing importance of consumption as a source of identity and its implications the impact of the shift to consumption on work/life balance *Work, Consumption and Culture* engages the reader with its lively debating style. It is an essential introduction for sociology and cultural studies students on courses relating to consumption and the role of work in contemporary society. `This book offers a balanced account of the changing importance of work and consumption in contemporary industrial society. Clearly written, the author identifies the central role that affluence plays in the relationship between work and consumption, and in the development of social life and individual identity' - Professor Paul Blyton, Cardiff Business School

Questions about the physical world, the mind, and technology in conversations that reveal a rich seam of interacting ideas. Science today is more a process of collaboration than moments of individual "eurekas." This book recreates that kind of synergy by offering a series of interconnected dialogues with leading scientists who are asked to reflect on key questions and concepts about the physical world, technology, and the mind. These thinkers offer both specific

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observations and broader comments about the intellectual traditions that inform these questions; doing so, they reveal a rich seam of interacting ideas. The persistent paradox of our era is that in a world of unprecedented access to information, many of the most important questions remain unsolved. These conversations (conducted by a veteran science writer, Adolfo Plasencia) reflect this, with scientists addressing such issues as intelligence, consciousness, global warming, energy, technology, matter, the possibility of another earth, changing the past, and even the philosophical curveball, “is the universe a hologram?” The dialogues discuss such fascinating aspects of the physical world as the function of the quantum bit, the primordial cosmology of the universe, and the wisdom of hewn stones. They offer optimistic but reasoned views of technology, considering convergence culture, algorithms, “Beauty ? Truth,” the hacker ethic, AI, and other topics. And they offer perspectives from a range of disciplines on intelligence, discussing subjects that include the neurophysiology of the brain, affective computing, collaborative innovation, and the wisdom of crowds. Conversations with Hal Abelson, Ricardo Baeza-Yates, John Perry Barlow, Javier Benedicto, José Bernabéu, Michail Bletsas, Jose M. Carmena, David Casacuberta, Yung Ho Chang, Ignacio Cirac, Gianluigi Colalucci, Avelino Corma, Bernardo Cuenca Grau, Javier Echeverria, José Hernández-Orallo, Hiroshi Ishii, Pablo Jarillo-Herrero, Henry Jenkins, Anne Margulies, Mario J. Molina, Tim O'Reilly, John Ochsendorf, Paul Osterman, Alvaro Pascual-Leone, Rosalind W. Picard, Howard Rheingold, Alejandro W. Rodriguez, Israel Ruiz, Sara Seager, Richard Stallman, Antonio Torralba, Bebo White, José María Yturralde

The Internet of Things (IoT) has attracted much attention from society, industry and academia as a promising technology that can enhance day to day activities, and the creation of new

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business models, products and services, and serve as a broad source of research topics and ideas. A future digital society is envisioned, composed of numerous wireless connected sensors and devices. Driven by huge demand, the massive IoT (mIoT) or massive machine type communication (mMTC) has been identified as one of the three main communication scenarios for 5G. In addition to connectivity, computing and storage and data management are also long-standing issues for low-cost devices and sensors. The book is a collection of outstanding technical research and industrial papers covering new research results, with a wide range of features within the 5G-and-beyond framework. It provides a range of discussions of the major research challenges and achievements within this topic.

The theme of CUTE is focused on the various aspects of ubiquitous computing for advances in ubiquitous computing and provides an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of ubiquitous computing. Therefore this book will include the various theories and practical applications in ubiquitous computing

“The essential public good that Margaret Thatcher, Tony Blair and now Cameron sell is not power stations, or trains, or hospitals. It’s the public itself. it’s us.” In a little over a generation the bones and sinews of the British economy – rail, energy, water, postal services, municipal housing – have been sold to remote, unaccountable private owners, often from overseas. In a series of brilliant portraits the award-winning novelist and journalist James Meek shows how Britain’s common wealth became private, and the impact it has had on us all: from the growing shortage of housing to spiralling energy bills. Meek explores the human stories behind the incremental privatization of the nation over the last three decades. He shows how, as our national assets are sold, ordinary citizens are handed over to private tax-gatherers, and the

greatest burden of taxes shifts to the poorest. In the end, it is not only public enterprises that have become private property, but we ourselves. Urgent, powerfully written and deeply moving, this is a passionate anatomy of the state of the nation: of what we have lost and what losing it cost us – the rent we must pay to exist on this private island.

Why the rise of redundant precision in architecture and the accompanying fear of error are key to understanding the discipline's needs, anxieties and desires. When architects draw even brick walls to six decimal places with software designed to cut lenses, it is clear that the logic that once organized relations between precision and material error in construction has unraveled. Precision, already a promiscuous term, seems now to have been uncoupled from its contract with truthfulness. Meanwhile error, and the always-political space of its dissent, has reconfigured itself. In *The Architecture of Error* Francesca Hughes argues that behind the architect's acute fetishization of redundant precision lies a special fear of physical error. What if we were to consider the pivotal cultural and technological transformations of modernism to have been driven not so much by the causes its narratives declare, she asks, as by an unspoken horror of loss of control over error, material life, and everything that matter stands for? Hughes traces the rising intolerance of material vagaries—from the removal of ornament to digitalized fabrication—that produced the blind rejection of organic materials, the proliferation of material testing, and the rhetorical obstacles that blighted cybernetics. Why is it, she asks, that the more we cornered physical error, the more we feared it? Hughes's analysis of redundant precision exposes an architecture of fear whose politics must be called into question.

Proposing error as a new category for architectural thought, Hughes draws on other disciplines and practices that have interrogated precision and failure, citing the work of scientists Nancy

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Cartwright and Evelyn Fox Keller and visual artists Gordon Matta-Clark, Barbara Hepworth, Rachel Whiteread, and others. These non-architect practitioners, she argues, show that error need not be excluded and precision can be made accountable.

This jargon-free guide clarifies principles for applying copyright law to 21st-century education, discusses what is permissible in the classroom, and explores the fair use of digital materials. This entirely revised second edition of *Engineering a Compiler* is full of technical updates and new material covering the latest developments in compiler technology. In this comprehensive text you will learn important techniques for constructing a modern compiler. Leading educators and researchers Keith Cooper and Linda Torczon combine basic principles with pragmatic insights from their experience building state-of-the-art compilers. They will help you fully understand important techniques such as compilation of imperative and object-oriented languages, construction of static single assignment forms, instruction scheduling, and graph-coloring register allocation. In-depth treatment of algorithms and techniques used in the front end of a modern compiler Focus on code optimization and code generation, the primary areas of recent research and development Improvements in presentation including conceptual overviews for each chapter, summaries and review questions for sections, and prominent placement of definitions for new terms Examples drawn from several different programming languages

Like its predecessor, the best-selling *CyberSociety*, published in 1994, *Cybersociety 2.0* is rooted in criticism and analysis of computer-mediated technologies to assist readers in becoming critically aware of the hype and hopes pinned on computer-mediated communication and of the cultures that are emerging among Internet users. Both books are products of a

particular moment in time, and serve as snapshots of the concerns and issues that surround the burgeoning new technologies of communication. After a brief introduction to the history of computer-mediated communication, each essay in this volume highlights specific cyber societies and how computer-mediated communication affects the notion of self and its relation to community. Contributors probe issues of community, standards of conduct, communication, means of fixing identity, knowledge, information, and the exercise of power in social relations. For decades, Germany has been shaped and reshaped by the sounds of popular music—whether viewed as uniquely German or an ideological invader from abroad. This collected volume brings together leading figures in the field of German Studies, popular music studies, and cultural studies at large to survey the sociopolitical impact of music on conceptions of the German state and national identity, gender and sexuality, and transnational cultural production and consumption, expanding on the ways in which sounds, technologies, media practices, and exchanges of popular music provide a unique glimpse into the cultural dynamics of postwar Germany.

A concise introduction to the basics of open access, describing what it is (and isn't) and showing that it is easy, fast, inexpensive, legal, and beneficial. The Internet lets us share perfect copies of our work with a worldwide audience at virtually no cost. We take advantage of this revolutionary opportunity when we make our work “open access”: digital, online, free of charge, and free of most copyright and licensing restrictions. Open access is made possible by the Internet and copyright-holder consent, and many authors, musicians, filmmakers, and other creators who depend on royalties are understandably unwilling to give their consent. But for 350 years, scholars have written peer-reviewed journal articles for impact, not for money, and

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are free to consent to open access without losing revenue. In this concise introduction, Peter Suber tells us what open access is and isn't, how it benefits authors and readers of research, how we pay for it, how it avoids copyright problems, how it has moved from the periphery to the mainstream, and what its future may hold. Distilling a decade of Suber's influential writing and thinking about open access, this is the indispensable book on the subject for researchers, librarians, administrators, funders, publishers, and policy makers.

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