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The problem of exchanging data between different databases with different schemas is an area of immense importance. Consequently data exchange has been one of the most active research topics in databases over the past decade. Foundational questions related to data exchange largely revolve around three key problems: how to build target solutions; how to answer queries over target solutions; and how to manipulate schema mappings themselves? The last question is also known under the name 'metadata management', since mappings represent metadata, rather than data in the database. In this book the authors summarize the key developments of a decade of research. Part I introduces the problem of data exchange via examples, both relational and XML; Part II deals with exchanging relational data; Part III focuses on exchanging XML data; and Part IV covers metadata management.

From the publisher VK global publications Pvt. limited Is a household name now. Established in 1979, with more than three decades of leadership in the area of economics and commerce, we take pride in claiming that we continue with the unstirred readership in the country. Specialising in the area of economics and commerce, we are not averse to the idea of diversification. Keeping this in view, more than a decade ago, a series of 'exam idea' Was launched in all the subjects For classes IX -XII however, success of our publication is admittedly due to

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prudent prolific writers. We have resource-pool of reputed authors, who leave no stone unturned in bringing out the best of study material, which makes our readers versatile in their thought processes and equips them with the exam-oriented acumen. Thousands of acknowledgment and accolades that we receive every year from our readers are a good testimony to the efforts and trustworthy endeavours of our authors the book has been designed topic and subtopic-wise, keeping the students' needs in mind.

In recent public workshops and working group meetings, the Forum on Microbial Threats of the Institute of Medicine (IOM) has examined a variety of infectious disease outbreaks with pandemic potential, including those caused by influenza (IOM, 2005) and severe acute respiratory syndrome (SARS) (IOM, 2004). Particular attention has been paid to the potential pandemic threat posed by the H5N1 strain of avian influenza, which is now endemic in many Southeast Asian bird populations. Since 2003, the H5N1 subtype of avian influenza has caused 185 confirmed human deaths in 11 countries, including some cases of viral transmission from human to human (WHO, 2007). But as worrisome as these developments are, at least they are caused by known pathogens. The next pandemic could well be caused by the emergence of a microbe that is still unknown, much as happened in the 1980s with the emergence of the human immunodeficiency virus (HIV) and in 2003 with the appearance of the SARS coronavirus. Previous Forum meetings on pandemic disease have discussed the scientific and logistical challenges associated with

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pandemic disease recognition, identification, and response. Participants in these earlier meetings also recognized the difficulty of implementing disease control strategies effectively. Ethical and Legal Considerations in Mitigating Pandemic Disease: Workshop Summary as a factual summary of what occurred at the workshop.

“At the core, Hit Refresh, is about us humans and the unique quality we call empathy, which will become ever more valuable in a world where the torrent of technology will disrupt the status quo like never before.” – Satya Nadella from Hit Refresh “Satya has charted a course for making the most of the opportunities created by technology while also facing up to the hard questions.” – Bill Gates from the Foreword of Hit Refresh The New York Times bestseller Hit Refresh is about individual change, about the transformation happening inside of Microsoft and the technology that will soon impact all of our lives—the arrival of the most exciting and disruptive wave of technology humankind has experienced: artificial intelligence, mixed reality, and quantum computing. It’s about how people, organizations, and societies can and must transform and “hit refresh” in their persistent quest for new energy, new ideas, and continued relevance and renewal. Microsoft’s CEO tells the inside story of the company’s continuing transformation, tracing his own personal journey from a childhood in India to leading some of the most significant technological changes in the digital era. Satya Nadella explores a fascinating childhood before immigrating to the U.S. and how he learned to lead along the way. He then shares his meditations as a sitting CEO—one who is mostly

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unknown following the brainy Bill Gates and energetic Steve Ballmer. He tells the inside story of how a company rediscovered its soul—transforming everything from culture to their fiercely competitive landscape and industry partnerships. As much a humanist as engineer and executive, Nadella concludes with his vision for the coming wave of technology and by exploring the potential impact to society and delivering call to action for world leaders. “Ideas excite me,” Nadella explains. “Empathy grounds and centers me.” Hit Refresh is a set of reflections, meditations, and recommendations presented as algorithms from a principled, deliberative leader searching for improvement—for himself, for a storied company, and for society.

This book is suitable for use in a university-level first course in computing (CS1), as well as the increasingly popular course known as CS0. It is difficult for many students to master basic concepts in computer science and programming. A large portion of the confusion can be blamed on the complexity of the tools and materials that are traditionally used to teach CS1 and CS2. This textbook was written with a single overarching goal: to present the core concepts of computer science as simply as possible without being simplistic.

This Implementation Plan clarifies the roles and responsibilities of governmental and non-governmental entities, including Federal, State, local, and tribal authorities and regional, national, and international stakeholders, and provides preparedness guidance for all segments of society.--Preface.

This comprehensive study guide covers the complete

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HSC Preliminary Senior Science course and has been specifically created to maximise exam success. This guide has been designed to meet all study needs, providing up-to-date information in an easy-to-use format. The sample HSC Exam has been updated for the new format. Excel HSC Preliminary Senior Science contains: an introductory section including how to use the book and an explanation of the new course helpful study and exam techniques comprehensive coverage of the entire Preliminary and HSC courses hundreds of diagrams to aid understanding icons and boxes to highlight key concepts and assessment skills including laboratory and field work checklists of key terms end of chapter revision questions with fully explained answers a trial HSC-style exam with answers and explanations a glossary of key terms useful websites highlighted throughout

This book constitutes the refereed post-conference proceedings of the 9th International Conference on Wireless Internet, WICON 2016, held in Haikou, China, in December 2016. The 30 full and 4 poster papers were selected from 62 submissions and are grouped into the following topics: sensor networks, security, wireless networks, Internet of Things.

Cambridge Checkpoints HSC provides the most up-to-date exam preparation and revision for HSC students. With a strong focus on exam practice, the series includes: the latest HSC exam papers with suggested responses, official past examination and exam style questions with suggested answers.

This comprehensive book is specially developed for the

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candidates of National Means Cum Merit Scholarship Exam (For Class VIII). This book includes Study Material & Previous Papers for the purpose of practice of questions based on the latest pattern of the examination. Detailed Explanatory Answers have also been provided for the selected questions for Better Understanding of the Candidates

Esta enciclopedia presenta numerosas experiencias y discernimientos de profesionales de todo el mundo sobre discusiones y perspectivas de la la interacción hombre-computadoras

This eighth edition of Essentials of Nursing Research, written by AJN awardwinning authors, along with its accompanying Study Guide for Essentials of Nursing Research, student learning ancillaries, and instructor teaching materials present a unique learningteaching package that is designed to teach students how to read and critique research reports, and to appreciate the application of research findings to nursing practice. New to this edition: New text organization with separate sections on quantitative and qualitative research offer greater continuity of ideas to better meet the needs of students and faculty. New online chapter supplements for every chapter expand student's knowledge of research topics New chapter on mixed methods research, which involves the blending of qualitative and quantitative data in a single inquiry, responds to the surge of interest in this type of research Increased emphasis on evidencebased practice (EBP) especially in the areas of asking wellworded questions for EBP and searching for such evidence guides the reader from

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theory to application. Enhanced assistance for instructors with numerous suggestions on how to make learning about and teaching research methods more rewarding.

Gurukul Books' New ISC Last 10 Years Solved Papers for Science Stream is strictly based on the latest ISC Curriculum and Examination Specifications for March 2019 exams. This comprehensive text enables Time Bound Practice of Previous Years Papers as per the new Marking Patterns. March 2017 Papers and Solutions included. Subjects included are English 1, English 2, Hindi, Physical Education, Mathematics, Computer Science, Physics, Chemistry and Biology. Year Wise papers with expert solutions for focused study will help students prepare well for the final exams.

GRE Physics practice questions with the most complete explanations and step-by-step solutions - guaranteed higher GRE Physics score! . Last updated Jan 8, 2016. "We regularly update and revise the content based on readers' feedback and latest test changes. The most current version is only available directly from Amazon and Barnes & Noble. " . To achieve a GRE Physics score, you need to develop skills to properly apply the knowledge you have and quickly choose the correct answer. You must solve numerous practice questions that represent the style and content of the GRE Physics. This GRE Physics prep book contains over 1,300 practice questions with detailed explanations and step-by-step solutions. It is the most complete and comprehensive study tool that will teach you how to approach and solve a multitude of physics problems.

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This book consists of: - 12 diagnostic tests to help you identify your strengths and weaknesses to optimize your preparation strategy - topical practice question sets to drill down on each topic from a variety of angles and formula applications - test-taking strategies to maximize your performance on the test day - sheets of formulae, equations, variables and units to know for each topic

----- The practice questions that comprise this book will help you to: - master important GRE Physics topics - assess your knowledge of topics tested on the GRE Physics - improve your test-taking skills - prepare for the test comprehensively and cost effectively

----- These practice questions cover the following physics topics tested on the GRE Physics:

Kinematics & dynamics Force, motion, gravitation
Equilibrium and momentum Work & energy Waves & periodic motion
Sound Fluids & solids Light & optics
Heat & thermodynamics Atomic & nuclear structure
Laboratory methods

Maharashtra Common Entrance Test (MH CET/ MHT CET) is annually conducted by the State Government of Maharashtra for the admission into B.Tech., B. Pharma, Ph.D. and other degree courses of different colleges in Maharashtra. There is no age limit for the candidates to apply for this entrance examination. The revised edition of this book has been carefully designed according to the latest pattern of the examination by providing the best guide to the students who are preparing for this paper. It contains Solved Papers (2019-2007) because of its self-explanatory features that helps candidates to understand the solution with full-fledged diagrams and illustrations

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easily, quickly and deeply. Practicing from this book creates the scenario of environment which boost confidence in the aspirants so that they can face the examination. This book prepares candidates to pass this entrance test with great ranks and get admissions in the reputed colleges. TABLE OF CONTENT SOLVED PAPERS (2019-2007)

Make nursing research approachable with the authoritative resource for nursing graduate students. This best-selling text features the latest methodologic innovations in nursing, medicine, and the social sciences delivered in a user-friendly writing style to help students master research methods, confidently critique research reports, and apply evidence-based findings in clinical practice. The extensively revised 11th Edition retains the helpful features, pedagogy, and clean design that have made the book a classic and introduces two new chapters reflecting the growing importance of applicability, generalizability, relevance, and quality improvement and improvement science. NEW! Quality Improvement and Improvement Science chapter provides methods and frameworks to help students develop and assess improvement projects. NEW! Applicability, Generalizability, and Relevance: Toward Practice-Based Evidence chapter details cutting-edge strategies to meet the growing need for patient-centered, practice-based evidence. UPDATED! Revised content throughout reflects the latest methodologic approaches to ranking evidence, verifying systematic reviews, using meta-aggregation, and more. Critical appraisal guidelines help students focus on specific aspects of a

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report for the most effective appraisal. Clear, user-friendly writing style introduces concepts logically and clarifies difficult ideas. Specific research tips translate abstract notions into practical strategies to help students confidently apply chapter lessons in real-life situations. Research examples throughout the text illustrate key points and stimulate critical thinking. A comprehensive index provides fast, efficient access to precise information. Tables, figures, and bulleted summaries reinforce essential chapter concepts at a glance. It's a great pleasure in presenting this fifth thoroughly revised edition of the book on Computer Applications in Business .In this revised edition,the book includes Operating System,E-Commerece & Internet,System Analysis & Design,Computer based Information System and Database.

EVERYTHING YOU NEED TO HELP SCORE A PERFECT 5, now with 33% more practice than previous editions! Ace the 2021 AP Environmental Science Exam with this comprehensive study guide--including 3 full-length practice tests with complete explanations, thorough content reviews, targeted strategies for every question type, and access to online extras. **Techniques That Actually Work.** - Tried-and-true strategies to help you avoid traps and beat the test - Tips for pacing yourself and guessing logically - Essential tactics to help you work smarter, not harder **Everything You Need to Know to Help Achieve a High Score.** - Detailed figures, graphs, and charts to illustrate important world environmental phenomena - Updated to align with the latest College Board standards - Thorough lists of key

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terms for every content chapter - Access to study plans, helpful pre-college information, and more via your online Student Tools Practice Your Way to Excellence. - 3 full-length practice tests with detailed answer explanations and scoring worksheets - Practice drills at the end of each content review chapter - Quick-study glossary of the terms you should know

Genetic algorithms have been used in science and engineering as adaptive algorithms for solving practical problems and as computational models of natural evolutionary systems. This brief, accessible introduction describes some of the most interesting research in the field and also enables readers to implement and experiment with genetic algorithms on their own. It focuses in depth on a small set of important and interesting topics—particularly in machine learning, scientific modeling, and artificial life—and reviews a broad span of research, including the work of Mitchell and her colleagues. The descriptions of applications and modeling projects stretch beyond the strict boundaries of computer science to include dynamical systems theory, game theory, molecular biology, ecology, evolutionary biology, and population genetics, underscoring the exciting "general purpose" nature of genetic algorithms as search methods that can be employed across disciplines. An Introduction to Genetic Algorithms is accessible to students and researchers in any scientific discipline. It includes many thought and computer exercises that build on and reinforce the reader's understanding of the text. The first chapter introduces genetic algorithms and their terminology and describes

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two provocative applications in detail. The second and third chapters look at the use of genetic algorithms in machine learning (computer programs, data analysis and prediction, neural networks) and in scientific models (interactions among learning, evolution, and culture; sexual selection; ecosystems; evolutionary activity). Several approaches to the theory of genetic algorithms are discussed in depth in the fourth chapter. The fifth chapter takes up implementation, and the last chapter poses some currently unanswered questions and surveys prospects for the future of evolutionary computation.

This guide is directly linked to the syllabus with every single dot point of the HSC chemistry syllabus appearing in the margin of the book.

26th European Symposium on Computer Aided Process Engineering contains the papers presented at the 26th European Society of Computer-Aided Process Engineering (ESCAPE) Event held at Portorož Slovenia, from June 12th to June 15th, 2016. Themes discussed at the conference include Process-product Synthesis, Design and Integration, Modelling, Numerical analysis, Simulation and Optimization, Process Operations and Control and Education in CAPE/PSE. Presents findings and discussions from the 26th European Society of Computer-Aided Process Engineering (ESCAPE) Event Education and knowledge have never been more important to society, yet research is segmented by approach, methodology or topic. Legitimation Code Theory or 'LCT' extends and integrates insights from Pierre Bourdieu and Basil Bernstein to offer a framework

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for research and practice that overcomes segmentalism. This book shows how LCT can be used to build knowledge about education and society. Comprising original papers by an international and multidisciplinary group of scholars, Knowledge-building offers the first primer in this fast-growing approach. Through case studies of major research projects, Part I provides practical insights into how LCT can be used to build knowledge by: - enabling dialogue between theory and data in qualitative research - bringing together quantitative and qualitative methodologies in mixed-methods research - relating theory and practice in praxis - conducting interdisciplinary studies with systemic functional linguistics Part II offers a series of studies of pressing issues facing knowledge-building in education and beyond, encompassing: - diverse subject areas, including physics, English, cultural studies, music, and design - educational sites: schooling, vocational education, and higher education - practices of research, curriculum, pedagogy and assessment - both education and informal learning contexts, such as museums and masonic lodges Carefully sequenced and interrelated, these chapters form a coherent collection that gives a unique insight into one of the most thought-provoking and innovative ways of building knowledge about knowledge-building in education and society to have emerged this century. This book is essential reading for all serious students and scholars of education, sociology and linguistics.

The original 1818 text of Mary Shelley's classic novel, with annotations and essays highlighting its scientific,

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ethical, and cautionary aspects. Mary Shelley's *Frankenstein* has endured in the popular imagination for two hundred years. Begun as a ghost story by an intellectually and socially precocious eighteen-year-old author during a cold and rainy summer on the shores of Lake Geneva, the dramatic tale of Victor Frankenstein and his stitched-together creature can be read as the ultimate parable of scientific hubris. Victor, “the modern Prometheus,” tried to do what he perhaps should have left to Nature: create life. Although the novel is most often discussed in literary-historical terms—as a seminal example of romanticism or as a groundbreaking early work of science fiction—Mary Shelley was keenly aware of contemporary scientific developments and incorporated them into her story. In our era of synthetic biology, artificial intelligence, robotics, and climate engineering, this edition of *Frankenstein* will resonate forcefully for readers with a background or interest in science and engineering, and anyone intrigued by the fundamental questions of creativity and responsibility. This edition of *Frankenstein* pairs the original 1818 version of the manuscript—meticulously line-edited and amended by Charles E. Robinson, one of the world's preeminent authorities on the text—with annotations and essays by leading scholars exploring the social and ethical aspects of scientific creativity raised by this remarkable story. The result is a unique and accessible edition of one of the most thought-provoking and influential novels ever written. Essays by Elizabeth Bear, Cory Doctorow, Heather E. Douglas, Josephine Johnston, Kate MacCord, Jane Maienschein, Anne K.

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Mellor, Alfred Nordmann

Class-tested and coherent, this textbook teaches classical and web information retrieval, including web search and the related areas of text classification and text clustering from basic concepts. It gives an up-to-date treatment of all aspects of the design and implementation of systems for gathering, indexing, and searching documents; methods for evaluating systems; and an introduction to the use of machine learning methods on text collections. All the important ideas are explained using examples and figures, making it perfect for introductory courses in information retrieval for advanced undergraduates and graduate students in computer science. Based on feedback from extensive classroom experience, the book has been carefully structured in order to make teaching more natural and effective. Slides and additional exercises (with solutions for lecturers) are also available through the book's supporting website to help course instructors prepare their lectures.

Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the

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field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

In gerontological research the understanding of age and ageing changed in the last decade. Biologic determined

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explanations no longer prevail in this research field. Instead, ideas of social constructivism are frequently used. These ideas define the state of age and the process of ageing as social constructions, steeping ageing in social and cultural assumptions, ascriptions, and expectations. From a social constructivist perspective, age and ageing are not (just) identified as dependency, deficit, and need for care – as it was foremost accelerated from a biological perspective – but with the life course and thus with individual lifestyles, experiences, attitudes and practices, as well as institutional and economic structures. A prominent social constructivist concept is “doing age.” Similar to “doing gender” the concept of “doing age” assumes age as taking place in the form of a social praxis within everyday life interactions between people and thus in performances, embedded in discourses, through which social hierarchies and ideals proceed. Despite the paradigm shift that social constructivist concepts enable in gerontological thinking, they reveal their blind spot when it comes to the materiality of ageing and thus to fleshy-sensual experiences, human and non-human ontologies and agencies. Addressing these materialities of ageing brings up its own critique on definitions of ageing bodies and material environments. This framing does not presume that age and ageing are solely products of human-to-human interactions or those of formative environments or of discourses. Rather humans, non-humans, and discourses become essential parts of ageing processes. Such a material framing enables us new insights into forms of age and ageing

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and thus offers an opportunity for scholars to engage critically with materialities of age and ageing. This eBook explores theoretical, methodological, and empirical concepts of such a 'Material Gerontology'.

Remington Education: Drug Information & Literature Evaluation teaches students how to effectively and efficiently locate and analyze up-to-date drug information and literature. It succinctly examines key drug information and literature-evaluation principles - the proper approach for answering drug/health information questions, tertiary and secondary resources, and practice guideline, systematic reviews and meta-analyses. Every chapter includes self-assessment questions; answers are located at the back of the book. This fully revised new edition covers the complete radar/ARPA installation and serves as the most comprehensive and up-to-date reference on equipment and techniques for radar observers using older and newer systems alike. Suitable for use as a professional reference or as a training text, the book covers all aspects of radar, ARPA and integrated bridge systems technology (including AIS, ECDIS and GNSS) and their role in shipboard operations. It is a valuable resource for larger vessels and also covers the needs of leisure and amateur sailors for whom this technology is now accessible. Radar and ARPA Manual provides essential information for professional mariners, including those on training courses for electronic navigation systems and professional certificates internationally. Reference is

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made throughout to IMO (International Maritime Organization) Performance Standards, the role of radar in navigation and in collision avoidance, and to international professional and amateur marine operations qualifications. The most up-to-date book available, with comprehensive treatment of modern radar and ARPA systems and ECDIS (Electronic Chart Display & Information Systems) Full coverage of IMO performance standards relating to radar and navigational technology on new and established vessels Covers best practice use of equipment as well as underlying principles, with essential mathematics and complicated concepts illustrated through the use of clear illustrations

The practice of modern medicine and biomedical research requires sophisticated information technologies with which to manage patient information, plan diagnostic procedures, interpret laboratory results, and carry out investigations.

Biomedical Informatics provides both a conceptual framework and a practical inspiration for this swiftly emerging scientific discipline at the intersection of computer science, decision science, information science, cognitive science, and biomedicine. Now revised and in its third edition, this text meets the growing demand by practitioners, researchers, and students for a comprehensive introduction to key topics in the field. Authored by leaders in medical informatics and extensively tested in their courses,

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the chapters in this volume constitute an effective textbook for students of medical informatics and its areas of application. The book is also a useful reference work for individual readers needing to understand the role that computers can play in the provision of clinical services and the pursuit of biological questions. The volume is organized so as first to explain basic concepts and then to illustrate them with specific systems and technologies. Endorsed by Cambridge International Examinations. Develop your students computational thinking and programming skills with complete coverage of the latest syllabus from experienced examiners and teachers. - Follows the order of the syllabus exactly, ensuring complete coverage - Introduces students to self-learning exercises, helping them learn how to use their knowledge in new scenarios Accompanying animation files of the key concepts are available to download for free online. See the Quick Links to the left to access. This book covers the IGCSE (0478), O Level (2210) and US IGCSE entry (0473) syllabuses, which are for first examination 2015. It may also be a useful reference for students taking the new Computer Science AS level course (9608). This volume studies the advances of software for computers, their development, applications and management. Topics covered include software project management, real time languages and their uses, and computer aided design techniques. The

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book also discusses how far artificial intelligence is integrated with business and industry to give a complete overview of the role of computer systems today.

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