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New Directions for Computing Education Computer Science and Informatics Graph-theoretic Concepts in Computer Science Stuck in the Shallow End, updated edition Laboratory for Computer Science Progress Report Fundamental Structures of Computer Science The Proceedings of the Thirtieth SIGCSE Technical Symposium on Computer Science Education Computer Science Fundamentals The Papers of the ACM SIGCSE Third Technical Symposium on Computer Science Education Computer Science Logic ACM Transactions on Programming Languages and Systems Introduction to Computer Science Computer science ACM 78 Computers & Electronics Computer Decisions *David Watson Tony Piper Harry Henderson Jan van Leeuwen Samuel B. Fee Jane Margolis Massachusetts Institute of Technology. Laboratory for Computer Science William Allan Wulf Daniel T. Joyce Elizabeth A. Unger Gerald L. Engel Association for Computing Machinery Peter M. Banks Association for Computing Machinery*

CAMBRIDGE IGCSE COMPUTER SCIENCE REVISION GUIDE FOLLOWS THE CAMBRIDGE IGCSE 0478 AND CAMBRIDGE O LEVEL 2210 COMPUTER SCIENCE SYLLABUSES MATCHING THE SYLLABUS FOR EXAMINATION FROM 2015 THE BOOK INSTILS CONFIDENCE AND THOROUGH UNDERSTANDING OF THE TOPICS LEARNED BY THE STUDENTS AS THEY REVISE FOR EXAMINATIONS AND IS WRITTEN IN A CLEAR AND STRAIGHTFORWARD TONE TO ASSIST LEARNING CONCEPTS AND THEORIES THIS REVISION GUIDE IS ENDORSED BY CAMBRIDGE INTERNATIONAL EXAMINATIONS

CAMBRIDGE INTERNATIONAL AS AND A LEVEL COMPUTER SCIENCE OFFERS A COMPLETE SET OF RESOURCES TO ACCOMPANY THE 9608 SYLLABUS THIS REVISION GUIDE HELPS STUDENTS TO PREPARE AND PRACTICE SKILLS FOR THE CAMBRIDGE AS AND A LEVEL COMPUTER SCIENCE EXAMINATION IT CONTAINS CLEAR EXPLANATIONS AND KEY INFORMATION TO SUPPORT LEARNERS WITH ADDITIONAL PRACTICE QUESTIONS TO HELP STUDENTS FEEL CONFIDENT AND REINFORCE THEIR UNDERSTANDING OF KEY CONCEPTS

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PRESENTS AN ILLUSTRATED A Z ENCYCLOPEDIA CONTAINING APPROXIMATELY 600 ENTRIES ON COMPUTER AND TECHNOLOGY RELATED TOPICS

IN 1996 THE INTERNATIONAL FEDERATION FOR INFORMATION PROCESSING IFIP ESTABL HED ITS RST TECHNICAL COMMITTEE ON FOUNDATIONS OF COMPUTER SCIENCE TC1 THE AIM OF IFIP TC1 IS TO SUPPORT THE DEVELOPMENT OF THEORETICAL COMPUTER SCIENCE AS A FUNDAMENTAL SCIENCE AND TO PROMOTE THE EXPLORATION OF FUNDAMENTAL C CEPTS MODELS THEORIES AND FORMAL SYSTEMS IN ORDER TO UNDERSTAND LAWS LIMITS AND POSSIBILITIES OF INFORMATION PROCESSING THIS VOLUME CONSTITUTES THE PROCEEDINGS OF THE RST IFIP INTERNATIONAL C FERENCE ON THEORETICAL COMPUTER SCIENCE IFIP TCS 2000 EXPLORING NEW FRONTIERS OF THEORETICAL INFORMATICS ORGANIZED BY IFIP TC1 HELD AT TOHOKU UNIVERSITY SENDAI JAPAN IN AUGUST 2000 THE IFIP TCS 2000 TECHNICAL PROGRAM CONSISTS OF INVITED TALKS CONTRIBUTED TALKS AND A PANEL DISCUSSION IN CONJUNCTION WITH THIS PROGRAM THERE ARE TWO SPECIAL OPEN LECTURES BY PROFESSORS JAN VAN LEEUWEN AND PETER D MOSSES THE DECISION TO HOLD THIS CONFERENCE WAS MADE BY IFIP TC1 IN AUGUST 1998 AND SINCE THEN IFIP TCS 2000 HAS BENE TED FROM THE E ORTS OF MANY PEOPLE IN PARTICULAR THE TC1 MEMBERS AND THE MEMBERS OF THE STEERING COMMITTEE THE PROGRAM COMMITTEE AND THE ORGANIZING COMMITTEE OF THE CONFERENCE OUR SPECIAL THANKS GO TO THE PROGRAM COMMITTEE CO CHAIRS TRACK 1 JAN VAN LEEUWEN U UTRECHT OSAMU WATANABE TOKYO INST TECH TRACK 2 MASAMI HAGIYA U TOKYO PETER D MOSSES U AARHUS

WHY SHOULD EVERY STUDENT TAKE A COMPUTING COURSE WHAT SHOULD BE THE CONTENT OF THESE COURSES HOW SHOULD THEY BE TAUGHT AND BY WHOM THIS BOOK ADDRESSES THESE QUESTIONS BY IDENTIFYING THE BROADER REACHES OF COMPUTING EDUCATION PROBLEM SOLVING AND CRITICAL THINKING AS A GENERAL APPROACH TO LEARNING THE BOOK DISCUSSES NEW APPROACHES TO COMPUTING EDUCATION AND CONSIDERS WHETHER THE MODERN UBIQUITY OF COMPUTING REQUIRES AN EDUCATIONAL APPROACH THAT IS INHERENTLY INTERDISCIPLINARY AND DISTINCT FROM THE TRADITIONAL COMPUTER SCIENCE PERSPECTIVE THE ALTERNATIVE APPROACH THAT THE AUTHORS ADVOCATE DERIVES ITS MISSION FROM AN

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INTENT TO EMBED ITSELF WITHIN AN INTERDISCIPLINARY ARTS AND SCIENCE CONTEXT AN INTERDISCIPLINARY APPROACH TO COMPUTING IS COMPELLINGLY VALUABLE FOR STUDENTS AND EDUCATIONAL INSTITUTIONS ALIKE ITS GOAL IS TO SUPPORT THE EDUCATIONAL AND INTELLECTUAL NEEDS OF STUDENTS WITH INTERESTS IN THE ENTIRE RANGE OF ACADEMIC DISCIPLINES IT CAPITALIZES ON STUDENTS FOCUS ON CAREER DEVELOPMENT AND EMPLOYERS DEMAND FOR TECHNICAL WHILE ALSO ENGAGING A DIVERSE STUDENT BODY THAT MAY NOT POSSESS A PRE EXISTING INTEREST IN COMPUTING FOR COMPUTING S SAKE THIS APPROACH MAKES DIRECTLY EVIDENT THE APPLICABILITY OF COMPUTER SCIENCE TOPICS TO REAL WORLD INTERDISCIPLINARY PROBLEMS BEYOND COMPUTING AND RECOGNIZES THAT TECHNICAL AND COMPUTATIONAL ABILITIES ARE ESSENTIAL WITHIN EVERY DISCIPLINE THE BOOK OFFERS A VALUABLE RESOURCE FOR COMPUTER SCIENCE AND COMPUTING EDUCATION INSTRUCTORS WHO ARE PRESENTLY RE THINKING THEIR CURRICULA AND PEDAGOGICAL APPROACHES AND ARE ACTIVELY TRYING NEW METHODS IN THE CLASSROOM IT WILL ALSO BENEFIT GRADUATE STUDENTS CONSIDERING A FUTURE OF TEACHING IN THE FIELD AS WELL AS ADMINISTRATORS IN BOTH HIGHER EDUCATION AND HIGH SCHOOLS INTERESTED IN BECOMING CONVERSANT IN THE DISCOURSE SURROUNDING THE FUTURE OF COMPUTING EDUCATION

WHY SO FEW AFRICAN AMERICAN AND LATINO A STUDENTS STUDY COMPUTER SCIENCE UPDATED EDITION OF A BOOK THAT REVEALS THE DYNAMICS OF INEQUALITY IN AMERICAN SCHOOLS THE NUMBER OF AFRICAN AMERICANS AND LATINO AS RECEIVING UNDERGRADUATE AND ADVANCED DEGREES IN COMPUTER SCIENCE IS DISPROPORTIONATELY LOW AND RELATIVELY FEW AFRICAN AMERICAN AND LATINO A HIGH SCHOOL STUDENTS RECEIVE THE KIND OF INSTITUTIONAL ENCOURAGEMENT EDUCATIONAL OPPORTUNITIES AND PREPARATION NEEDED FOR THEM TO CHOOSE COMPUTER SCIENCE AS A FIELD OF STUDY AND PROFESSION IN STUCK IN THE SHALLOW END JANE MARGOLIS AND COAUTHORS LOOK AT THE DAILY EXPERIENCES OF STUDENTS AND TEACHERS IN THREE LOS ANGELES PUBLIC HIGH SCHOOLS AN OVERCROWDED URBAN HIGH SCHOOL A MATH AND SCIENCE MAGNET SCHOOL AND A WELL FUNDED SCHOOL IN AN AFFLUENT NEIGHBORHOOD THEY FIND AN INSIDIOUS VIRTUAL SEGREGATION THAT MAINTAINS INEQUALITY THE RACE GAP IN COMPUTER SCIENCE MARGOLIS DISCOVERS IS ONE EXAMPLE OF THE WAY STUDENTS OF COLOR ARE DENIED A WIDE RANGE OF OCCUPATIONAL AND

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educational futures stuck in the shallow end is a story of how inequality is reproduced in america and how students and teachers given the necessary tools can change the system since the 2008 publication of stuck in the shallow end the book has found an eager audience among teachers school administrators and academics this updated edition offers a new preface detailing the progress in making computer science accessible to all a new postscript and discussion questions coauthored by jane margolis and joanna goode

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