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Nota di contenuto	3-D printing -- Agile robotics -- ALGOL -- Algorithms -- Android os -- Application -- Applied linguistics -- Architecture software -- ASCII -- Assembly Language -- Autonomic computing -- Avatars and simulation -- Basic -- Binary/hexadecimal representations -- Biochemical engineering -- Biomedical engineering -- Biometrics -- Biotechnology -- C++ -- CAD/CAM -- Cloud computing -- Combinatorics -- Communication technology -- Comptia A+ certification -- Computer animation -- Computer circuitry : flip flops -- Computer circuitry : semiconductors -- Computer memory -- Computer modeling -- Computer programming : image editing -- Computer programming : music editing -- Computer programming : video editing -- Computer security -- Computer-assisted instruction -- Connection machine -- Constraint programming -- Control systems -- CPU design -- Cryptography -- Deadlock -- Debugging -- Demon dialing/war dialing -- Device drivers -- Digital citizenship -- Digital forensics -- Digital signal processors -- Digital watermarking -- Dirty paper coding -- DOS -- Drones -- Electronic circuits -- Electronic communication software -- Electronic waste -- Encryption -- Firewalls -- Firmware -- Fitbit -- FORTRAN -- Functional design -- Game programming -- Graphical user interface -- Graphics formats -- Green computing -- Information technology -- Integrated development

environments -- Intelligent tutoring system -- Internet privacy -- iOS -- LISP -- Malware -- Medical technology -- Mesh networking -- Metacomputing -- Microprocessors -- Microscale 3-D printing -- Mobile apps -- Mobile operating systems -- Molecular Computers -- Motherboards -- Multiprocessing operating systems -- Multitasking operating systems -- Multithreading operating systems -- Multitouch displays -- Multi-user operating systems -- Natural language processing -- Networking : routing and switches -- Neural networks -- Neuromorphic chips -- Object-oriented design -- Parallel processors -- Personal health monitor technology -- Personalized medicine -- Privacy regulations -- Programming languages -- PROLOG -- Quantum computers -- Quantum computing -- Random-access memory -- Removable memory -- Scaling systems -- Signal processing -- Smart homes -- Software architecture -- Software regulations -- Software testing -- Software-defined radio -- Speech-recognition software -- Turing machine -- Turing Test -- Unicode -- UNIX -- Web design programming tools -- Web graphic design -- Windows operating system -- Wireframes -- Wireless networks -- Workplace monitoring.

Sommario/riassunto

This book introduces the fundamentals of computer science using easy-to-understand language for a solid start and deeper understanding and appreciation of this complex subject. It covers related fields of study to illustrate the connections between the various branches of computer science including computer engineering, software engineering, biotechnology, security, robotics, gaming, and programming languages.
