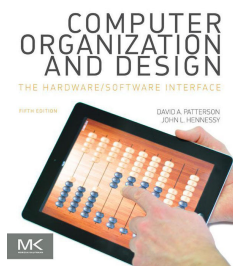


# GLOBALSTUDY.COM Ebook and Manual Reference

## COMPUTER ORGANIZATION AND DESIGN ENHANCED ENHANCED EDITION EBOOKS 2019



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u003ciu003eComputer Organization and Design, Fifth Editionu003c/iu003e, moves into the post-PC era with new examples and material highlighting the emergence of mobile computing and the cloud. The book explores this generational change with updated content featuring tablet computers, cloud infrastructure, and the ARM (mobile computing devices) and x86 (cloud computing) architectures.u003cbr /u003eu003cbr /u003eThis new edition provides in-depth coverage of parallelism with examples and content highlighting parallel hardware and software topics. It features the Intel Core i7, ARM Cortex-A8 and NVIDIA Fermi GPU as real-world examples throughout the book. It also adds a new concrete example, Going Faster, to demonstrate how understanding hardware can inspire software optimizations that improve performance by 200 times. Other topics covered include: the Eight Great Ideas of computer architecture; performance via parallelism; performance via pipelining; performance via prediction; design for Moore's Law; hierarchy of memories; abstraction to simplify design; and dependability via redundancy. The book includes a full set of updated and improved exercises as well as pop-up definitions for technical terms and concepts. Furthermore, it features interactive learning assessments that provide instant feedback in the form of true/false, multiple choice, and short essay questions.u003cbr /u003eu003cbr /u003eThis book will appeal to professionals in computer organization and design as well as students with interest or are taking courses in this subject.u003cbr /u003eWinner of a 2014 Texty Award from the Text and Academic Authors AssociationIncludes new examples, exercises, and material highlighting the emergence of mobile computing and the cloudCovers parallelism in depth with examples and content highlighting parallel hardware and software topics Features the Intel Core i7, ARM Cortex-A8 and NVIDIA Fermi GPU as real-world examples throughout the book Adds a new concrete example, "Going Faster," to demonstrate how understanding hardware can inspire software optimizations that improve performance by 200 timesDiscusses and highlights the "Eight Great Ideas" of computer architecture:u0026#xa0; Performance via Parallelism; Performance via Pipelining; Performance via Prediction; Design for Moore's Law; Hierarchy of Memories; Abstraction to Simplify Design; Make the Common Case Fast;u0026#xa0; and Dependability via RedundancyIncludes a full set of updated and improved exercises u003cbr /u003eu003cbru003eFeatures interactive learning assessments that provide instant feedback in the form of true/false, multiple choice, and short essay questions.u003cbr /u003eu003cbru003eIncludes pop-up definitions for technical terms and concepts.u003cbr /u003e

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