

Essentials Of Computer Organization And Architecture 5th Edition

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The Essentials of Computer Organization and Architecture ... The title of our book, The Essentials of Computer Organization and Architecture, is intended to convey that the topics presented in the text are those for which every computer science major should have exposure, familiarity, or mastery. We do not expect students using our textbook to have complete mastery of all topics pre-sented.

Linda Null Julia Lobur—WordPress.com ... Title: Essentials of computer organization and architecture / Linda Null. Description: Fifth edition. | Burlington, Massachusetts: Jones & Bartlett Learning, 2018. | Includes bibliographical references and index. Identifiers: LCCN 2017044949 | ISBN 9781284123036 (hardback) Subjects: LCSH: Computer organization. | Computer architecture. |

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Updated and revised with the latest data in the field, The Essentials of Computer Organization and Architecture, Third Edition is a comprehensive resource that addresses all of the necessary organization and architecture topics, yet is appropriate for the one-term course. This best-selling text correlates to the 2008 ACM-IEEE Computer Science Curriculum update and exposes readers to the inner workings of a modern digital computer through an integrated presentation of fundamental concepts and principles. The authors present real-world examples and focus on practical applications, thus encouraging students to develop a "big picture" understanding of how essential organization and architecture concepts are applied in the world of computing. The Essentials of Computer Organization and Architecture, Second Edition was awarded a "Textbook Excellence Award" (" Texty ") from the Text and Academic Authors Association (TAA) the only association devoted solely to serving textbook and academic authors since 1987 (www.TAAonline.net). The "Textbook Excellence Award" recognizes works for their excellence in the areas of content, presentation, appeal, and teachability. Key Features: -Presents material in a logical progression, starting with low-level hardware and progressing to higher-lever software, including assemblers and operating systems -Correlates to the 2008 ACM-IEEE Computer Science Curriculum update and contains new exercises within the text to reflect the update. -Includes real-world examples to provide students with a better understanding of how technology and techniques are combined for practical applications -Instructor ' s resources include a complete instructor ' s manual, lecture outline, sample test questions, and Microsoft® PowerPoint® slides -The MARIE Simulator package allows students to learn the essential concepts of computer organization and architecture, including assembly language, without getting caught up in unnecessary and confusing details. -Can be bundled with an Intel supplement

Bestselling text, The Essentials of Computer Organization and Architecture, Fourth Edition, is comprehensive enough to address all necessary organization and architecture topics, but concise enough to be appropriate for a single-term course. Its focus on real-world examples and practical applications encourages students to develop a "big-picture" understanding of how essential organization and architecture concepts are applied in the computing world. In addition to direct correlation with the ACM/IEEE guidelines for computer organization and architecture, the text exposes readers to the inner workings of a modern digital computer through an integrated presentation of fundamental concepts and principles.

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This easy to read textbook provides an introduction to computer architecture, while focusing on the essential aspects of hardware that programmers need to know. The topics are explained from a programmer ' s point of view, and the text emphasizes consequences for programmers. Divided in five parts, the book covers the basics of digital logic, gates, and data paths, as well as the three primary aspects of architecture: processors, memories, and I/O systems. The book also covers advanced topics of parallelism, pipelining, power and energy, and performance. A hands-on lab is also included. The second edition contains three new chapters as well as changes and updates throughout.

Suitable for a one- or two-semester undergraduate or beginning graduate course in computer science and computer engineering, Computer Organization, Design, and Architecture, Fifth Edition presents the operating principles, capabilities, and limitations of digital computers to enable the development of complex yet efficient systems. With 11 new sections and four revised sections, this edition takes students through a solid, up-to-date exploration of single- and multiple-processor systems, embedded architectures, and performance evaluation. See What ' s New in the Fifth Edition Expanded coverage of embedded systems, mobile processors, and cloud computing Material for the "Architecture and Organization" part of the 2013 IEEE/ACM Draft Curricula for Computer Science and Engineering Updated commercial machine architecture examples The backbone of the book is a description of the complete design of a simple but complete hypothetical computer. The author then details the architectural features of contemporary computer systems (selected from Intel, MIPS, ARM, Motorola, Cray and various microcontrollers, etc.) as enhancements to the structure of the simple computer. He also introduces performance enhancements and advanced architectures including networks, distributed systems, GRIDs, and cloud computing. Computer organization deals with providing just enough details on the operation of the computer system for sophisticated users and programmers. Often, books on digital systems ' architecture fall into four categories: logic design, computer organization, hardware design, and system architecture. This book captures the important attributes of these four categories to present a comprehensive text that includes pertinent hardware, software, and system aspects.

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