The Essentials of Computer Organization and Architecture

Linda Null, Julia Lobur

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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 -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 Accompanied by a full suite of instructor resources, including an Instructor's Manual, Lecture Outline, Sample test questions, and PowerPoint Lecture Outlines

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