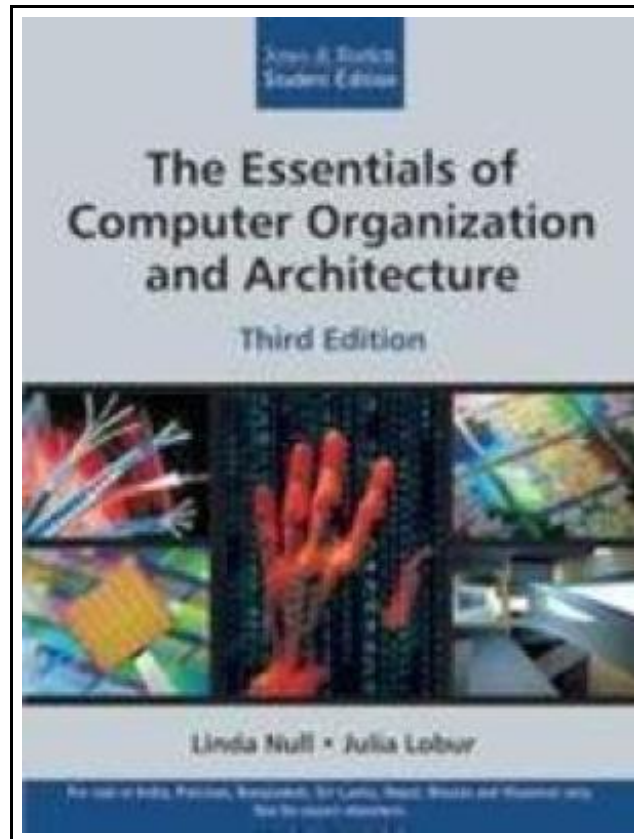


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(Prof. Damon Kautzer III)

THE ESSENTIALS OF COMPUTER ORGANIZATION AND ARCHITECTURE, (THIRD EDITION)



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Jones & Bartlett India Private Limited/Viva Books, 2011. Softcover. Book Condition: New. 3rd edition. 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. Key Features ? Provides students with in-depth coverage of the appropriate core concepts, while still offering the necessary exposure to less critical concepts, thus allowing students to see the whole picture ? Presents material in a logical progression, starting with low-level hardware and progressing to higher-level software, including assemblers and operating systems ? Correlates to the 2008 ACM-IEEE Computer Science Curriculum update ? Includes real-world examples to provide students with a better understanding of how technology and techniques are combined for practical applications ? Contains new exercises within the text to reflect ACM-IEEE CS2008 . 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 Contents: Chapter 1: Introduction ? Overview ? The Main Components of a Computer ? An Example System: Wading through the Jargon ? Standards Organizations ? Historical Development ? Generation Zero: Mechanical Calculating...

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