
Irv Englander

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DESCRIPTION

The Architecture of Computer Hardware, System Software, and Networking: An Information Technology Approach, 5th Edition provides the right amount of technical detail needed to succeed in the field. This accessible introduction provides the basic principles of computer system architecture and organization in the context of the current technological landscape. The author provides chapters on the fundamentals of networking as it relates to computer systems as well as all kinds of business systems, from entrepreneurial to small business, networked, distributed, and more. This valuable book provides IT professionals with several real-world case studies that clearly show how the concepts are applied in the field.

ABOUT THE AUTHOR

Dr. Irv Englander has been involved in many different aspects of the computing field for more than forty years. He has designed logic circuits, developed integrated circuits, developed computer architectures, designed computer-controlled systems, designed operating systems developed application software, created the initial system design for a large water monitoring system, performed software auditing and verification of critical control software, and developed and specified hardware components and application software as a consultant for business systems large and small.
NEW TO EDITION

• Chapters 1-9 received updates, minor clarifications, and typo fixes as necessary.

• Chapters 10-18 were substantially re-organized, updated, and revised.

• The fifth edition will have a completely new and comprehensive test bank written by long time user Ronald Munsee of University of Maryland University College.

FEATURES

• Provides students with an understanding of underlying, non-changing basics of computers so that they can make knowledgeable decisions about systems.

• Carefully and patiently introduces students to new technological concepts, so that they are not overwhelmed by challenging materials, but instead build a deep understanding of what makes computer systems tick.

• Examples cover a broad spectrum of hardware and software systems, from personal computer to mainframe.

• The author's "light touch" includes a breezy, readable writing style and subject-specific cartoons that introduce each chapter's material.

• As in the prior edition, discussions of hardware and system software are integrated into a single volume where symbioses between them are explored. Examples include: Virtual storage, Javabytes, distributed processing, and Virtual machines.