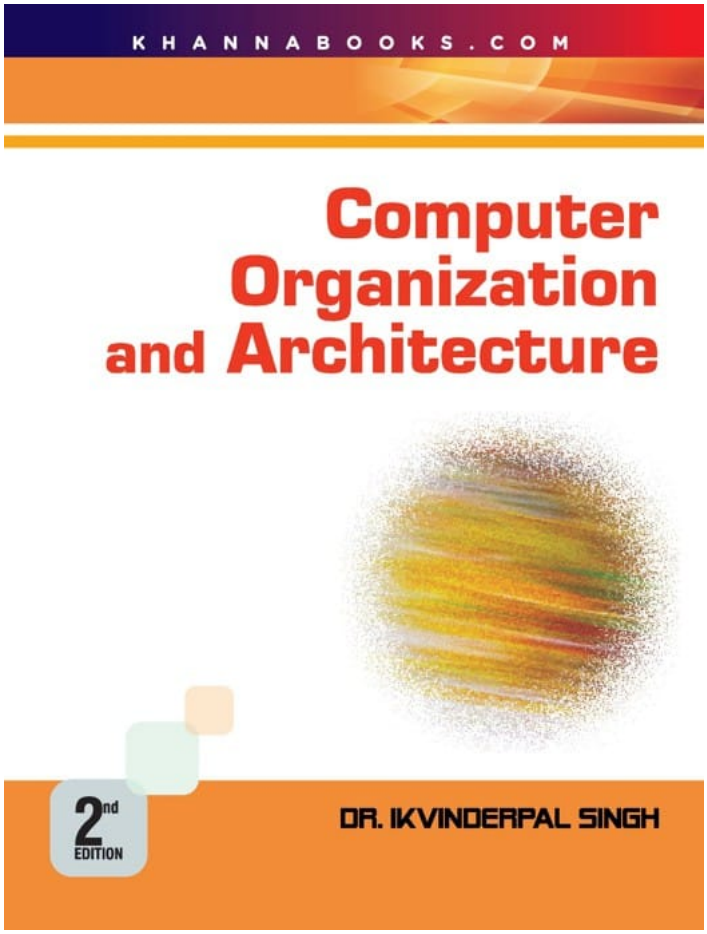

Computer Organization and Architecture

Author :	Ikvinderpal Singh
ISBN 13 :	978-93-55383-45-7
ISBN 10 :	93-55383-45-2
E-ISBN 13 :	978-93-55383-45-7
Edition :	2
Pages :	776
Type of book :	Paperback
Weight (g) :	1160.00
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 799.00
Categories :	Computer Science Engineering
Condition Type :	New
Country Origin :	India

Product Description

The title of our book, 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 presented. it is our firm belief, however that there the certain topics that must be mastered; there are those topics for which students must have a definite familiarity; and there are certain topics for which a brief introduction and exposure are adequate. We feel our explanations, examples and exercises all combine to provide the student with a total learning experience that exposes the inner workings of a modern digital computer at the appropriate level. Like most books, we have chosen an architectural model, but it is one that we have designed with simplicity in mind.

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Chapter 1: Overview of Computer Organization. **Chapter 2:** Digital Logic Basics. **Chapter 3:** Combinational Circuits. **Chapter 4:** Sequential Circuits. **Chapter 5:** Number System and Codes. **Chapter 6:** Register Transfer Language. **Chapter 7:** Computer Organization and design. **Chapter 8:** Assembly Language. **Chapter 9:** Control Unit. **Chapter 10:** Central Processing Unit. **Chapter 11:** Central Processing Unit. **Chapter 12:** Pipeline and Vector Processing. **Chapter 13:** Input-Output Organization. **Chapter 14:** Memory System Design. **Chapter 15:** Introduction to Multiprocessors.

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