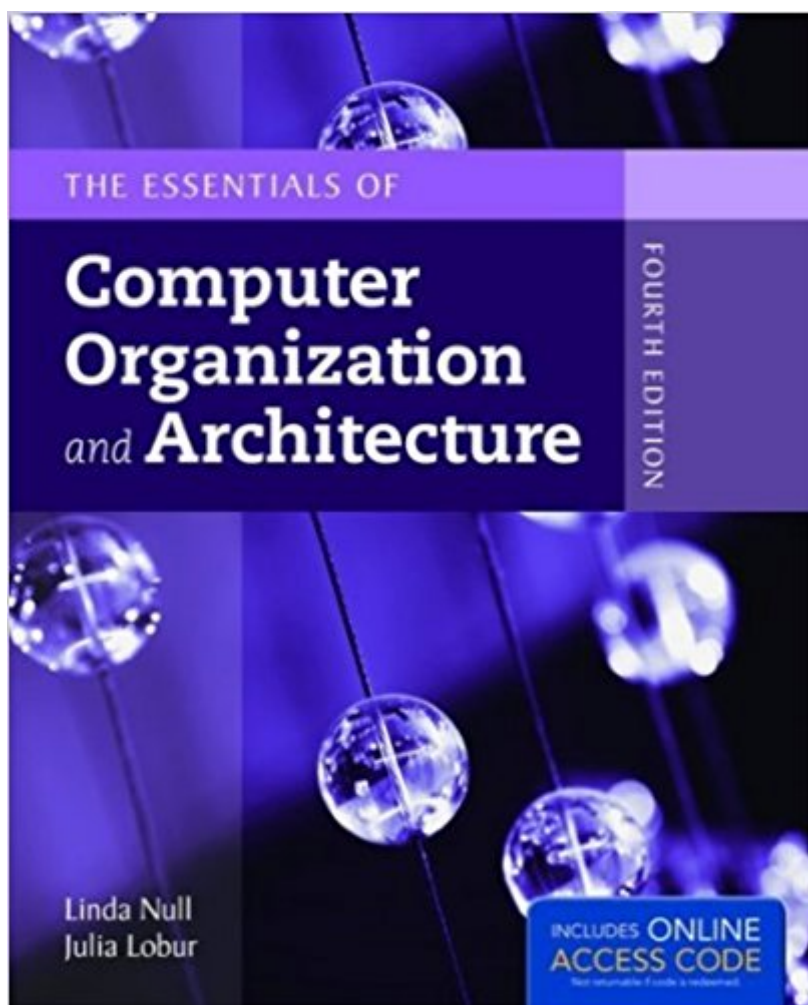


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# The Essentials Of Computer Organization And Architecture



## Synopsis

The Essentials of Computer Organization and Architecture, Fourth Edition was recently awarded a "Textbook Excellence Award" (â œTextyâ •) from the Text and Academic Authors Association (TAA) the only association devoted solely to serving textbook and academic authors since 1987 ([www.TAAonline.net](http://www.TAAonline.net)). The "Textbook Excellence Award" recognizes works for their excellence in the areas of content, presentation, appeal, and teachability. This is the third Texty award for Null and Lobur. They also won for their Second and Third Editions of this text. Updated and revised to reflect the most current data in the field, perennial bestseller 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 â œbig-pictureâ • understanding of how essential organization and architecture concepts are applied in the computing world. In addition to direct correlation with the ACM/IEEE CS2013 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. The fully revised and updated Fourth Edition includes the most up-to-the-minute data and resources available and reflects current technologies, including tablets and cloud computing. All-new exercises, expanded discussions, and feature boxes in every chapter implement even more real-world applications and current data, and many chapters include all-new examples. A full suite of student and instructor resources, including a secure companion website, Lecture Outlines in PowerPoint Format, and an Instructor Manual, complement the text. This award-winning, best-selling text is the most thorough, student-friendly, and accessible text on the market today. Key Features: â ç The Fourth Edition is in direct correlation with the ACM/IEEE CS2013 guidelines for computer organization and architecture, in addition to integrating material from additional knowledge units. â ç All-new material on a variety of topics, including zetabytes and yottabytes, automatons, tablet computers, graphic processing units, and cloud computing â ç 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. â ç Full suite of ancillary materials, including a secure companion website, PowerPoint lecture outlines, and an Instructor Manual â ç Bundled with an optional Intel supplement â ç Ideally suited for single-term courses

## Book Information

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## Customer Reviews

Thorough, well-written, highly technical textbook. Presented the detailed information I was looking for with a lot of helpful examples and diagrams. Really not sure why it's gotten such poor reviews here. Sure, some of the information is complicated and dry -- but that's the nature of the subject matter.

Don't buy this book unless it's required for class.<sup>1</sup> Almost nothing has changed from the first edition aside from the first chapter.<sup>2</sup> It's not written very clearly; I was forced to rely on class slides and Youtube videos to understand what was going on.

I would give it a five star if it's a book from Wikibooks. Lots of overly detailed facts, historical information, mediocre but acceptable formatting, and excessive citations - everything you would expect from a community sourced textbook. But this is a published textbook with a price tag of over 200 dollars. And only minutes into reading the book, I got terribly frustrated. Some of the problems the book has, which I've discovered after reading the first chapter, are as follows:<sup>1</sup> The book uses very low quality images. On Page 9, there is even a picture taken from Wikipedia! Being printed in black and white, it is near impossible to see what's actually on the picture. (It is a photo of a motherboard with blurry annotations that you cannot read). And on Page 27, there is a picture that seemed taken by a cellphone camera. What's bothering me is that the book actually uses professional illustrations as well. Why do they allow low quality images to be used when they have

access to professional artists, who could easily draw a much better illustration than a low resolution photo.<sup>2</sup> The typography of this book is rather bad. If they could use a smaller font size that most college-level textbooks would use, the near 900-page book would probably be only half as thick. The formatting is so minimal that you will have no idea if you are reading a new section or just a sub-section. Important concepts are not highlighted properly, while random words are put in bold for no apparent reasons.<sup>3</sup> It seems that whoever wrote the exercise questions did not read the book at all. Questions are irrelevant to what's covered in the chapter, and sometimes require you to Google the answer - the book just mentions nothing about what the question's asking.<sup>4</sup> Also it seems that whoever wrote the answers for the exercise questions did not read the questions at all. The answer to exercise 8 in Chapter 1 seems just plain wrong. However, it is a solid book - it holds my coffee mug without deformation, even after hours of use.

The chapters provide a general overview of ideas/topics but the questions at the end of the chapter are very detail intensive. Probably the second worst book I have ever come across in my entire life. Know that if the book is required, you will be using other sources to actually learn the material to do the homework. Good luck.

This version does not include access to the resources so don't waste your money if you need the MARIE tool or other content.

This book is absolutely horrible. Do not get caught up with the title, because most of the content is not even relevant to the usual Computer Organization and Architecture course. This textbook reads like it was put together in the last minute. The author is all over the place, and for a few hundred bucks, I'd expect the paper quality to be a lot better, as well as the pictures to be made by the publishing company or a graphic artist, instead of taken from some kind of Google search. If you ever "have to" use this book for the content it presents, at least get a supplementary textbook or material from somewhere else.

Not a great book, layout is irritating, hard to find key facts. Ok as a course book, not very good for future use as a reference.

This book was required for my class and was 50% less than the bookstore.

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