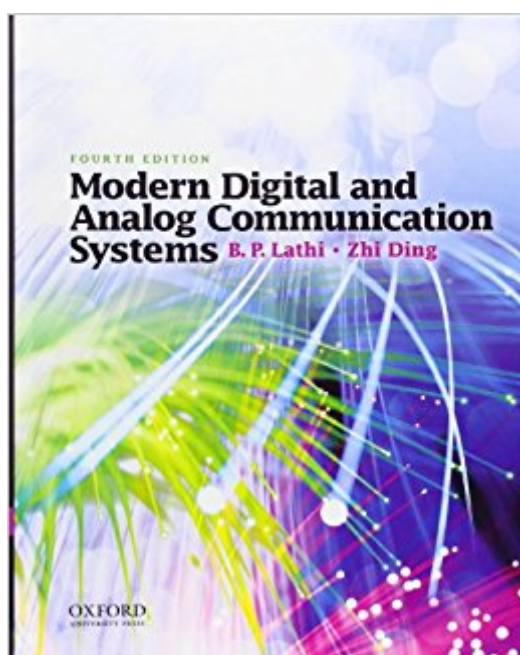The book was found

Modern Digital And Analog Communication Systems (The Oxford Series In Electrical And Computer Engineering)

Synopsis

An ideal first text on communication systems in electrical engineering, Modern Digital and Analog Communication Systems is now in its fourth edition. Retaining the superb pedagogical style of the first three editions, the authors first introduce the fundamentals of signals and systems and core communication topics; they then present the tools essential to the design and analysis of digital communications. Featuring a seamless blend of mathematics and heuristics, carefully crafted examples to clarify mathematical abstractions, and new and updated MATLAB exercises, this text provides a thorough coverage of modern communication system theory and application that is easily accessible to students. Modern Digital and Analog Communication Systems is suitable for students with or without prior knowledge of probability theory. Only after laying a solid foundation in how communication systems work do the authors delve into analyses of communication systems that require probability theory and random processes. Revised, expanded, and updated throughout, the fourth edition reflects the many technological advances in the field, such as OFDM and CDMA, pervasive communication applications such as cellular systems, wireless LAN systems, and DSL modem technology services.Features * Flexible organization (outlined in the preface) that accommodates a variety of course structures, including one-semester, two-semester, one-quarter, and two-quarter* Accessible to students with no background in probability theory* Abundant real-world examples that are applicable to students' everyday lives* Gives intuitive insights--rather than just proofs--wherever possible, as well as heuristic explanations of theoretical resultsA solutions manual is available for adopting professors.

Book Information

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Customer Reviews

B.P. Lathi has retired from California State University, Sacramento. Zhi Ding is a Professor at the University of California, Davis.

This negative review is, in no way, a reflection of the physical quality of the text. It was delivered on time and in the condition specified by the seller.The content, however, is another story. I am nearing the completion of a master of science degree in electrical engineering and was required to purchase this book for a digital communications course. It is, in my opinion, one of the worst textbooks I have ever had the misfortune of using. The book is poorly written, in an abstract manner, with very little practical application to real-world problems. There are attempts to explain the material, but the details are skimmed through, leaving the reader with no other option other than to search for other sources. The chapters on probability are the worst in the book, and someone considering purchasing the text for this content should look elsewhere. By far, the most frustrating aspect of this book are the chapter problems. There is a galactic gap between the level of understanding expected at the end of each chapter and the level of difficulty of the problem sets. For some chapters, a problem set of ten problems has taken up to 16-20+ hours to complete. This was mostly spent on research outside of the pages of the book.On a positive note, the MATLAB examples are decent. However, we did not utilize them in our coursework, so I don't have enough experience to form an educated opinion of their teaching effectiveness.

First time I used the text book written by Sir B. P. Lathi as an undergraduate student in 1982. The book was called Communication Systems for our course with the same name. That was an excellent book and gave good mathematical treatment, basically on Analog Communication System. After graduating as MSEE I have been using his two books for teaching communication systems. This Title "Modern Digital and Analog Communication Systems as primary text and "Linear Systems and Signals" as supporting text for course on Communication Systems. Though other books from Haykin, Proakis, Couch, Stern, Zimmer, etc. have been useful to me as well, yet the simplified manner in which B. P. Lathi explains concepts supported by mathematical models is unique and liked by my students as well. It is worth noting that concepts of Information Theory are introduced at undergraduate level only in this text book as a separate chapter. This helps in

understanding the connection between Communication Theory and Information Theory. This was available even in his first text book written in 1960s. With the inclusion of MATLAB examples it has become easy to understand and comprehend the performance of various modulation schemes.However, keeping in view the increased importance of Wireless Communication, the topics related to multicarrier communication (OFDM), error control, channel models, and MIMO system, could have been expanded, perhaps as a separate chapter, like it is done by Prof Gallager in his new book " Introduction to Digital Communication".

Should advertise that the paperback edition is the international edition.

I actually enjoy reading this book for my Communications Engineering class. My professor is not the best at explaining example problems, so it's been a relief to find clearly worked out examples for each section of each chapter. It also explains the concepts clearly and thoroughly. I don't think I would have learned anything in this class with out the aid of this textbook.

It is not the exact same content as the US edition.

This book was the assigned book for my communications course. It has worked well in concert with said course.Required words here.

1 of the few good Comms books.

I have the 3rd ed. of this book and find it a great book - very carefully written and easy to follow. This made me buy the 4th ed. of the same (used) book because, as has been advertised, the new (4th) ed. contains some new topics like OFDM, 802.11a/b/g/n, DSL, MIMO, LDPC, etc. However, even before I finish reading Chapter 3 of the book, I have discovered some typos of the new book already, some of which were not found in the 3rd edition. Example typos are in Eq. 2.66(p.49), Eq. 3.16(p.99), Eq. 3.17(p.100), Fig. 3.9b(p.101), Fig. 3.10a&b(p.102), Fig. 3.16a&b(p.109), Fig. 3.17a&b(p.111), Fig. 3.18b(p.111), Fig. 3.20b(p.113), Fig. 3.22b&d(p.116), footnote on tp(p.127), Fig. 3.29b(p.130), Fig. 3.41a(p.145), etc. While I am not sure if a list of errata of the book has been provided to the readers, my trust on the book has been lowered quite a bit as compared to its previous (3rd) edition.

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