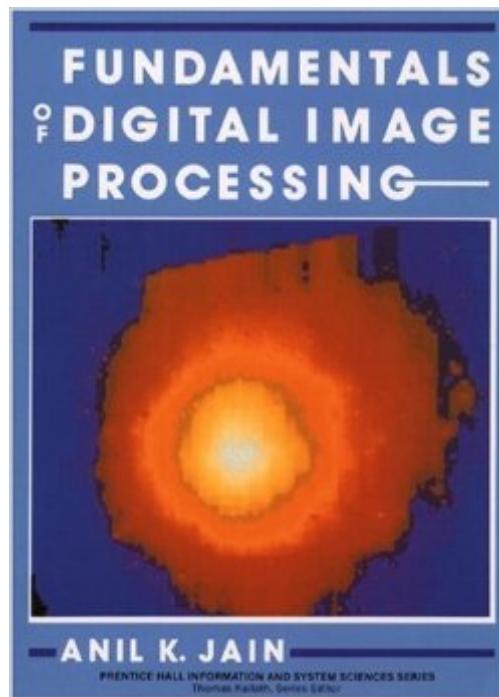


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# Fundamentals Of Digital Image Processing



## **Synopsis**

Presents a thorough overview of the major topics of digital image processing, beginning with the basic mathematical tools needed for the subject. Includes a comprehensive chapter on stochastic models for digital image processing. Covers aspects of image representation including luminance, color, spatial and temporal properties of vision, and digitization. Explores various image processing techniques. Discusses algorithm development (software/firmware) for image transforms, enhancement, reconstruction, and image coding.

## **Book Information**

Paperback: 569 pages

Publisher: Pearson; 1 edition (October 3, 1988)

Language: English

ISBN-10: 0133361659

ISBN-13: 978-0133361650

Product Dimensions: 7 x 1.3 x 9 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

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## **Customer Reviews**

This book probably has all the information you need to know about digital image processing. However, if you are new to the field, this book may be your worst nightmare: It is really difficult to read and understand. So, if you want to learn about digital image processing, buy an easy to read book -such as the one from Gonzales- and get this book as a reference book.

Be cautious when buying this book. There is a printing problem that results in the loss of dots. That means periods, primes, decimals, the dot on a semicolon, etc. Not all are missing, but this is a mathematics book. This is utterly inexcusable and the publisher should never have distributed a book in this condition. Basic proof reading would have caught the error when converting from old technology to new. My professor says the hardback doesn't have the same problem. (I'm in the

market if you've got one.) I returned my copy to the bookstore for a refund.

OK...let's address a few of the complaints about this book. **Disjoint:** OK, maybe a bit. Image processing is really a group of techniques, not like basic mathematics where you learn to add first, then multiply. The progression is not necessarily linear. If you want to solve this problem with an image you learn this set of techniques, which are typically disjoint from other sets of techniques. **However, its all there, everything.** **Equations:** Digital image processing requires mathematics. If you don't like it, then go find something else. The concepts are mathematical in nature. I think software people will find this more readable because of all the summations (more common to programmers than engineers sometimes). **Dated:** I'm sure Dr Jain would like to update the book. Unfortunately he's dead. He died in 1988 (at the age of 42). The sure fact that this book was written before digital cameras were a big deal is really amazing to me. I was using this book in 2001-2003 for image processing, including class work, as well as some military research work. I found that I could read this book, look at the diagrams and the mathematics and program the algorithms in Matlab. That's what I wanted from this book, for both class and work. It delivered. Heck, I liked it well enough that I consulted it for 1-dimensional signal processing info as well as two (i.e. images).

I thought I bought a good book, until I found out all the punctuation marks are missing, not in titles, not in sentences, not in formulas, not in graphs!! I didn't return it since I was just using it for reference. But it is definitely not worth the money.

Excellent reference. This book has the mathematical and theoretical rigor. It is an advanced, graduate-level book for practitioners and academically minded people. It is a shame the author dies at a young age of 42. If he had lived longer, digital image processing would have benefited immensely.

This is an excellent and comprehensive book about image processing. Its name is misleading - this is not an introductory book, although it covers all the needed mathematical background. However, this is one of the most valuable books in this field to be handy on your book shelf.

A good book for a variety of people, novice or advanced. Mathematically very well organized. References and bibliography well structured, for each section, giving freedom to explore the ideas.

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