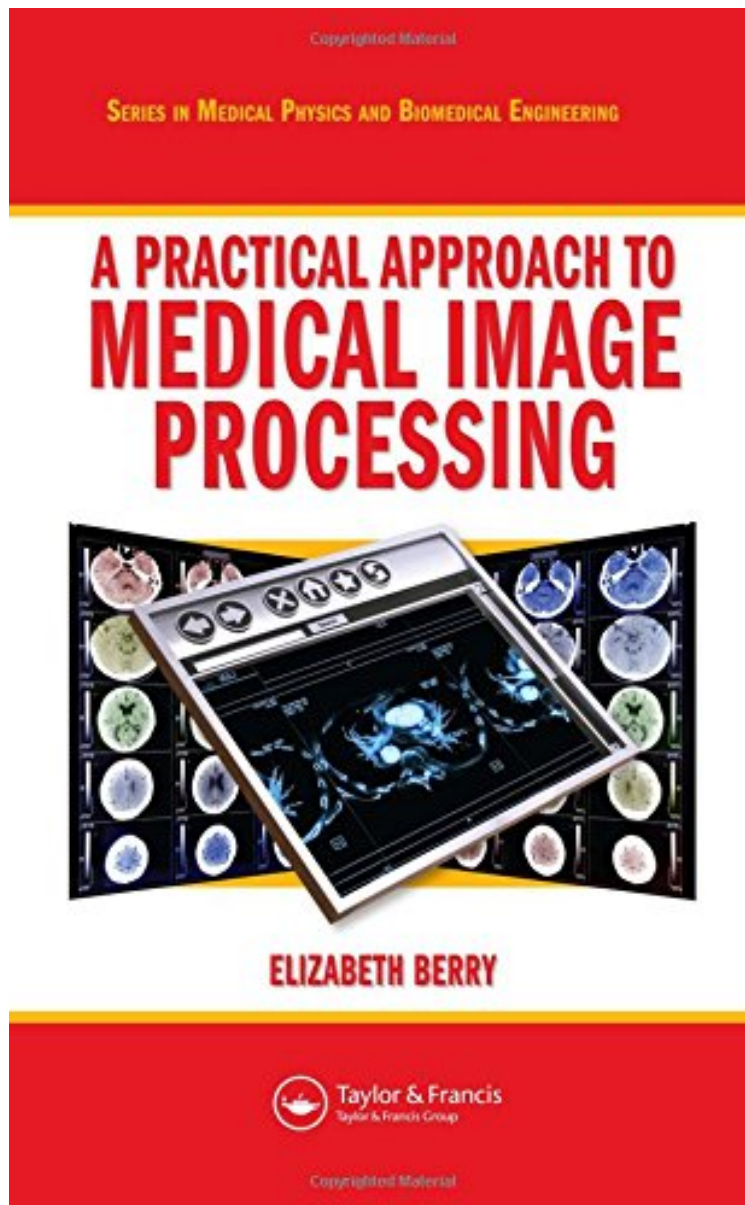


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Elizabeth Berry

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Elizabeth Berry : A Practical Approach to Medical Image Processing (Series in Medical Physics and Biomedical Engineering) before purchasing it in order to gauge whether or not it would be worth my time, and all praised A Practical Approach to Medical Image Processing (Series in Medical Physics and Biomedical Engineering):

2 of 2 people found the following review helpful. An Introduction Easy to Understand By Okinawa Dolphin This book is suitable for first steps in image processing. It is definitely a good thing that morphological operations are introduced without mathematical proofs and theorems. The enclosed software ImageJ is handy to understand the effects of certain image processing operations and to enhance interesting details in an image. For a developer of image processing algorithms this book alone would be too short, though.

The ability to manipulate and analyze pictorial information to improve medical diagnosis, monitoring, and therapy via imaging is a valuable tool that every professional working in radiography, medical imaging, and medical physics should utilize. However, previous texts on the subject have only approached the subject from a programming or computer science viewpoint at a mathematically inaccessible level. Unlike these previous publications, *A Practical Approach to Medical Imaging Processing* provides hands-on instruction, using the freely available software program ImageJ, on all of the skills needed to perform filtering and image enhancement techniques used in structured image discrimination. In this unique text, the author focuses exclusively on image processing and treats medical images in a generic way to highlight the features that all digital images have in common. The book first introduces the main topics in image processing and as it progresses, you will discover relevant points of good practice. The author validates each technique with a corresponding case study, which originates from a published journal article. The case studies demonstrate how the concepts of image processing are applied to real-life situations, such as how to uncover information suffering from distortion and pixel-size limitations. The accompanying CD-ROM contains the Windows version of the ImageJ software, digital images, and documents to be used during the practical activities included in each chapter. With its highly functional workbook approach, *A Practical Approach to Medical Image Processing* allows you to build your skills in image manipulation and to enjoy the benefits of this valuable field without having to code or develop your own program.

Practical Approach to Medical Image Processing is destined to become an image analysis standard for the medical imaging professional as well as for anyone involved in research aspects of imaging applications in medical and biological disciplines. The detailed instructions for expanding the software to fit the user's particular needs are a valuable resource that cannot be underestimated. - Robert Splinter, Analytica Sciences Inc., author of *An Introduction to Biomedical Optics* About the Author Elizabeth Berry Ltd, Leeds, UK