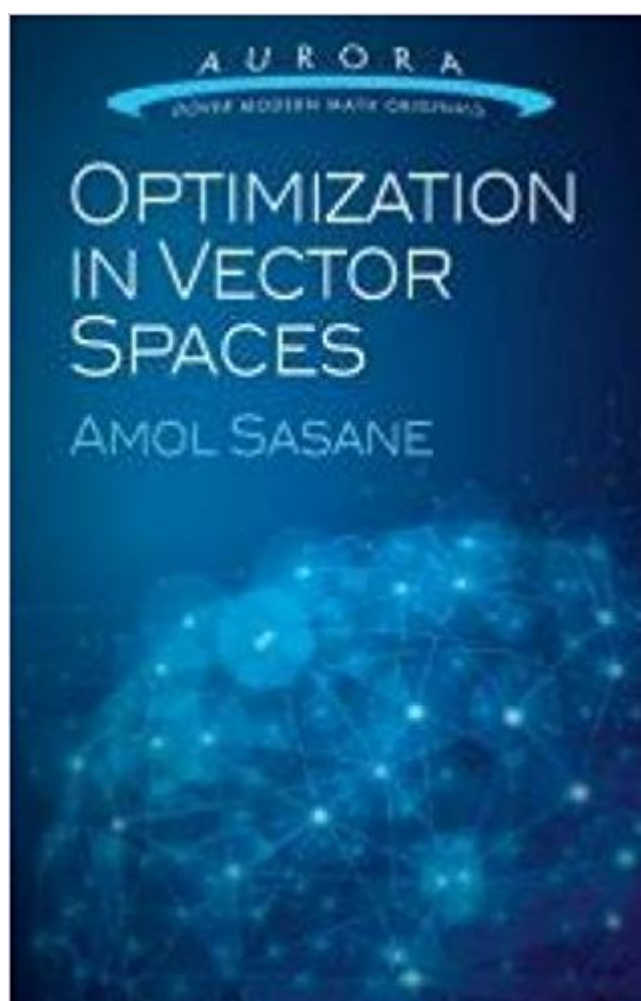


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Optimization In Function Spaces (Aurora: Dover Modern Math Originals)



Synopsis

This highly readable volume on optimization in function spaces is based on author Amol Sasane's lecture notes, which he developed over several years while teaching a course for third-year undergraduates at the London School of Economics. The classroom-tested text is written in an informal but precise style that emphasizes clarity and detail, taking students step by step through each subject. Numerous examples throughout the text clarify methods, and a substantial number of exercises provide reinforcement. Detailed solutions to all of the exercises make this book ideal for self-study. The topics are relevant to students in engineering and economics as well as mathematics majors. Prerequisites include multivariable calculus and basic linear algebra. The necessary background in differential equations and elementary functional analysis is developed within the text, offering students a self-contained treatment.

Book Information

Series: Aurora: Dover Modern Math Originals

Paperback: 256 pages

Publisher: Dover Publications; First Edition, First ed. edition (March 15, 2016)

Language: English

ISBN-10: 0486789454

ISBN-13: 978-0486789453

Product Dimensions: 9 x 6 x 0.4 inches

Shipping Weight: 14.4 ounces (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 2 customer reviews

Best Sellers Rank: #1,313,612 in Books (See Top 100 in Books) #44 in Books > Science & Math > Mathematics > Transformations #1094 in Books > Science & Math > Mathematics > Mathematical Analysis

Customer Reviews

Amol Sasane received his PhD in mathematics from the University of Groningen in the Netherlands. He is a Lecturer in Mathematics at the London School of Economics.

Great for self study

I have many books in optimal control theory, and I think this is definitely one of the best. I wish when I first studied the topic I would have had it. I ordered this book for a friend as a gift, and as soon as I

received it and got a chance to have a detailed look, I immediately ordered another copy for myself. The author did a good job in balancing mathematical rigor and accessibility from a broad scope of audience. Written by a mathematician, this book is more rigorous than many other introductory optimal control textbook that emphasised applications. However accessibility is definitely not sacrificed. The book starts with tutoring basic analysis results and then smoothly transitions to optimal control theory. The book can be enjoyed by readers from multiple disciplines and suits for self-study.

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