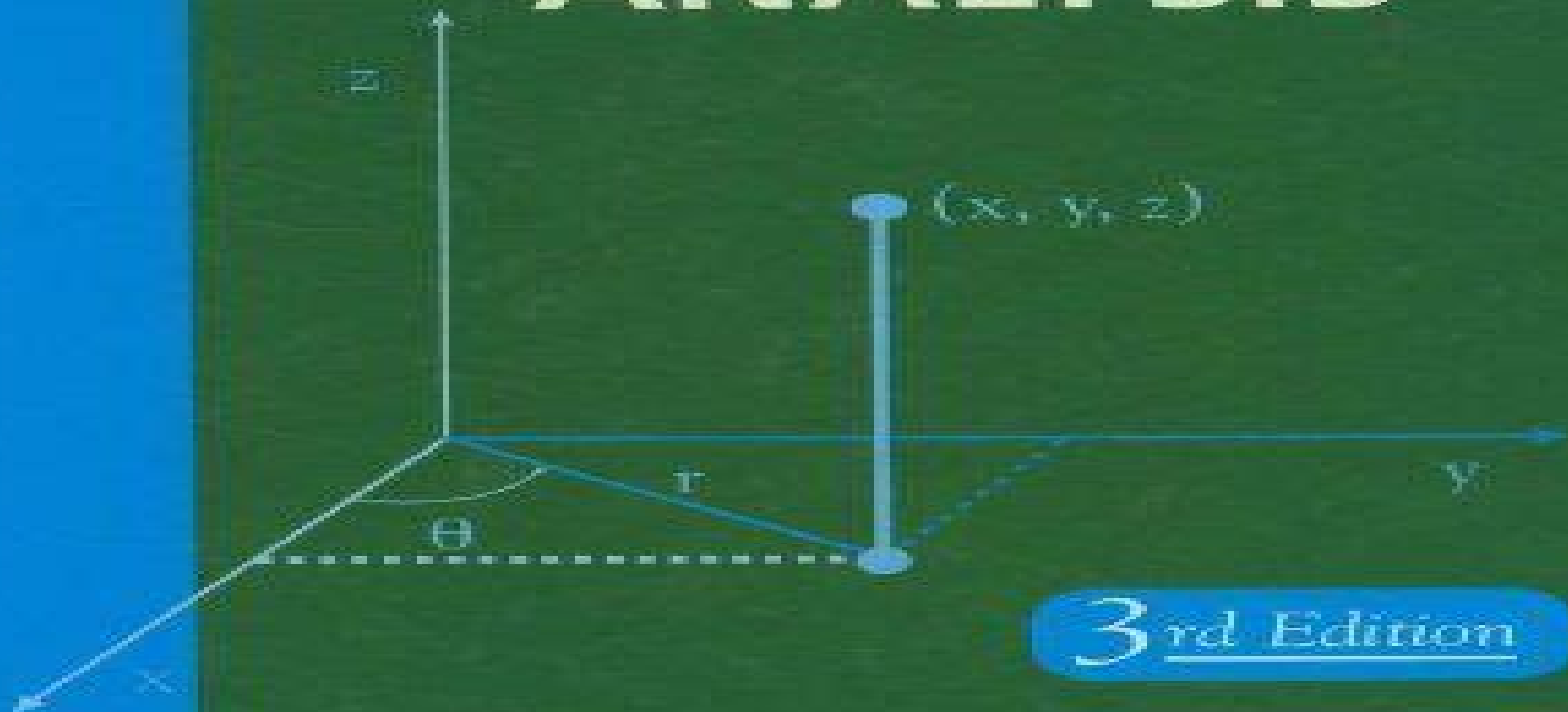


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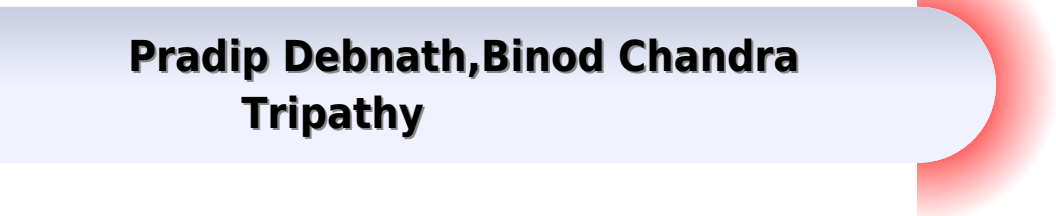
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prominently A good number of problems with liberal hints is provided at the end of each chapter The book is so designed that it can be used as a text for a one semester course during the first year of a master s program in mathematics or at the senior undergraduate level About the Author M Thamban Nair is a professor of mathematics at the Indian Institute of Technology Madras Chennai India He was a post doctoral fellow at the University of Grenoble France through a French government scholarship and also held visiting positions at Australian National University Canberra University of Kaiserslautern Germany University of St Etienne France and Sun Yat sen University Guangzhou China The broad area of Prof Nair s research is in functional analysis and operator equations more specifically in the operator theoretic aspects of inverse and ill posed problems Prof Nair has published more than 70 research papers in nationally and internationally reputed journals in the areas of spectral approximations operator equations and inverse and ill posed problems He is also the author of three books Functional Analysis A First Course PHI Learning New Delhi Linear Operator Equations Approximation and Regularization World Scientific Singapore and Calculus of One Variable Ane Books Pvt Ltd New Delhi and he is also co author of Linear Algebra Springer New York

Soft Computing Pradip Debnath,Binod Chandra Tripathy,2024-09-30 This book examines the latest developments in the area of soft computing with engineering applications It explores topics such as fuzzy sets intuitionistic fuzzy sets unmanned aerial vehicles soft sets neutrosophic sets fractional calculus big data analytics and the mathematical foundations of convolutional neural network CNNs Soft Computing Engineering Applications offers readers a comprehensive and in depth understanding of various cutting edge technologies that are transforming industries worldwide The book explores soft computing techniques in a very systematic manner It elucidates the concepts theories and applications of fuzzy sets enabling readers to grasp the fundamentals and explore their applications in various fields It provides new insight into unmanned aerial vehicle applications to fuzzy soft set based decision making It then discusses new fixed point results in orthogonal neutrosophic generalized metric spaces and explores statistical convergence of triple sequences in a credibility space The authors then provide readers with a solid grasp of the mathematical underpinnings of CNNs enabling them to design train and optimize neural networks for image recognition object detection and other computer vision tasks The authors also present new studies in fractional calculus and explores advanced visualization algorithms and techniques for big data analytics Soft Computing will be useful for beginners and advanced researchers in engineering applied sciences and healthcare professionals working in soft computing applications

Introduction to Real Analysis Christopher Heil,2019-07-20 Developed over years of classroom use this textbook provides a clear and accessible approach to real analysis This modern interpretation is based on the author s lecture notes and has been meticulously tailored to motivate students and inspire readers to explore the material and to continue exploring even after they have finished the book The definitions theorems and proofs contained within are presented with mathematical rigor but conveyed in an accessible manner and with language and motivation meant for students who have not taken a previous course on this subject The text

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