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By Hung Cheng

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Offering a powerful yet easy-to-understand approach, this book presents graduate and upper-level undergraduate students with an active learning experience. The focus is placed on helping learners grasp central mathematical themes rather than peripheral details, reducing much of the time-consuming task of memorizing formulae.

Numerous examples and interactive "Problems for the Reader" are generously interspersed throughout to help learners absorb concepts more effectively. Exercises in each chapter are carefully designed to strengthen students' ability to solve general problems. Throughout the learning process, the author also shares valuable problem-solving tools and tips acquired through more than 40 years of research and teaching.

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Editorial Review

Review

Professor Cheng has performed a real service to the many students for whom mastery of advanced mathematical methods is a pre-requisite to accomplishment in their chosen field of science or engineering. This book rolls up its sleeves and quickly gets down to a no-nonsense account of most of the key points of introductory applied mathematics, with many ingenious examples that illuminate common pitfalls and an array of clever tricks that should confound even the most fiendish of difficult problems. --Nigel Goldenfeld, Department of Physics, University of Illinois

I appreciate the way the different topics are explained and the level of detail that is given in the calculation. This is missing from many of the other books that I know, perhaps all of them... This book has definite advantages over...the main competitors. --Michael Brenner, Division of Engineering and Applied Sciences, Harvard University

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