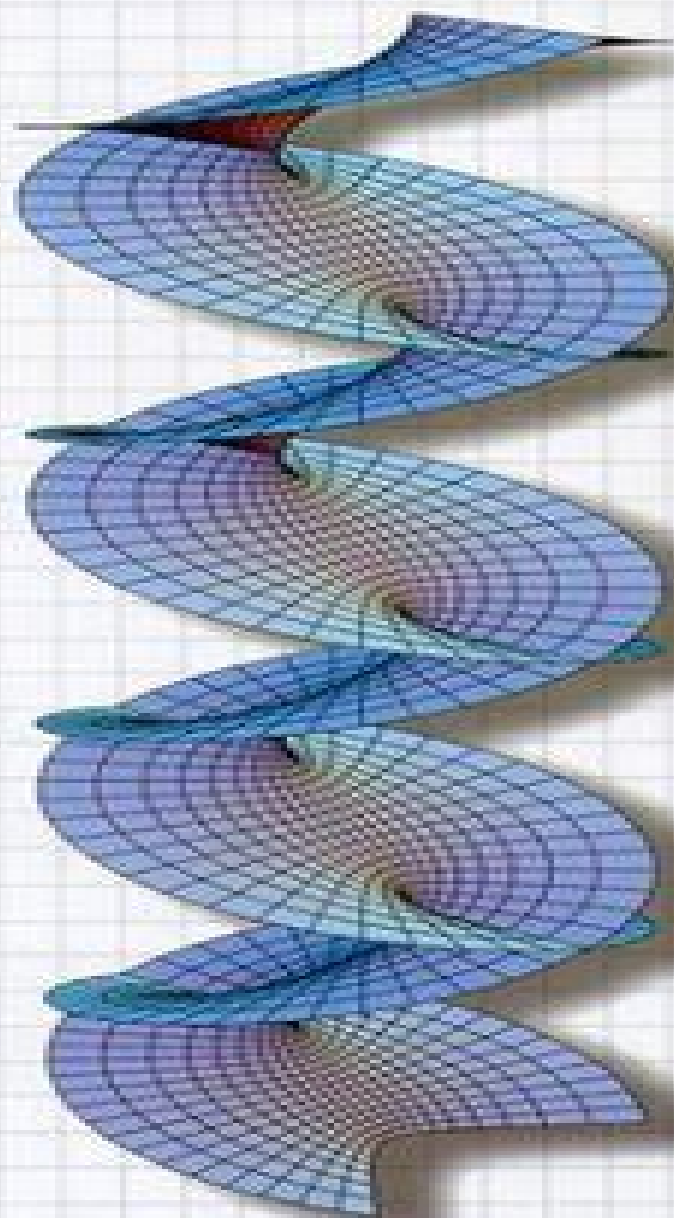




A First Course in

Complex Analysis

with Applications

Dennis G. Zill

Patrick D. Shanahan

Complex Analysis A First Course With Applications

Dennis G. Zill, Patrick D. Shanahan



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Analysis, 2/E Zill, 2010-01-01 *A First Course in Complex Analysis with Applications* Dennis Zill, Patrick Shanahan, 2009 The new Second Edition of *A First Course in Complex Analysis with Applications* is a truly accessible introduction to the fundamental principles and applications of complex analysis. Designed for the undergraduate student with a calculus background but no prior experience with complex variables, this text discusses theory of the most relevant mathematical topics in a student friendly manner. With Zill's clear and straightforward writing style, concepts are introduced through numerous examples and clear illustrations. Students are guided and supported through numerous proofs, providing them with a higher level of mathematical insight and maturity. Each chapter contains a separate section on the applications of complex variables, providing students with the opportunity to develop a practical and clear understanding of complex analysis. A First Course in Complex Analysis Allan R. Willms, 2022-04-20 This book introduces complex analysis and is appropriate for a first course in the subject at typically the third year University level. It introduces the exponential function very early but does

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one year calculus course no differential equations required students will easily be exposed to many interesting areas of current research This course can also serve as a bridge between the low level often non rigorous calculus courses and the more demanding higher level mathematics courses Features More extensive coverage of fractals including objects like the Sierpinski carpet and others that appear as Julia sets in the later sections on complex dynamics as well as an actual chaos game More detailed coverage of complex dynamical systems like the quadratic family and the exponential maps New sections on other complex dynamical systems like rational maps A number of new and expanded computer experiments for students to perform About the Author Robert L Devaney is currently professor of mathematics at Boston University He received his PhD from the University of California at Berkeley under the direction of Stephen Smale He taught at Northwestern University and Tufts University before coming to Boston University in 1980 His main area of research is dynamical systems primarily complex analytic dynamics but also including more general ideas about chaotic dynamical systems Lately he has become intrigued with the incredibly rich topological aspects of dynamics including such things as indecomposable continua Sierpinski curves and Cantor bouquets

Weyl Transforms M.W. Wong, 2006-03-31 A study of the functional analytic properties of Weyl transforms as bounded linear operators on $L^2(\mathbb{R}^n)$ in terms of the symbols of the transforms Further the boundedness the compactness the spectrum and the functional calculus of the Weyl transform are proved in detail while new results and techniques on the boundedness and compactness of the Weyl transforms in terms of the symbols in $L^r(\mathbb{R}^{2n})$ and in terms of the Wigner transforms of Hermite functions are given The roles of the Heisenberg group and the symplectic group in the study of the structure of the Weyl transform are explained and the connections of the Weyl transform with quantization are highlighted throughout the book Localisation operators first studied as filters in signal analysis are shown to be Weyl transforms with symbols expressed in terms of the admissible wavelets of the localisation operators The results and methods mean this book is of interest to graduates and mathematicians working in Fourier analysis operator theory pseudo differential operators and mathematical physics

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