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UNDERGRADUATE TEXTS IN MATHEMATICS

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Complex Analysis Serge Lang, 2013-03-14 The present book is meant as a text for a course on complex analysis at the advanced undergraduate level or first year graduate level. The first half more or less can be used for a one semester course addressed to undergraduates. The second half can be used for a second semester at either level. Somewhat more material has been included than can be covered at leisure in one or two terms to give opportunities for the instructor to exercise individual taste and to lead the course in whatever directions strikes the instructor's fancy at the time as well as extra reading material for students on their own. A large number of routine exercises are included for the more standard portions and a few harder exercises of striking theoretical interest are also included but may be omitted in courses addressed to less advanced students. In some sense I think the classical German prewar texts were the best: Hurwitz, Courant, Knopp, Bieberbach etc. and I would recommend to anyone to look through them. More recent texts have emphasized connections with real analysis which is important but at the cost of exhibiting succinctly and clearly what is peculiar about complex analysis: the power series expansion, the uniqueness of analytic continuation and the calculus of residues.

Geometric Complex Analysis - Proceedings Of The Third International Research Institute Of Mathematical Society Of Japan J Noguchi, Hirofumi Fujimoto, J Kajiwar, Takeo Ohsawa, 1996-05-09 This proceedings is a collection of articles in several complex variables with emphasis on geometric methods and results which includes several survey papers reviewing the development of the topics in these decades. Through this volume one can see an active field providing insight into other fields like algebraic geometry, dynamical systems and partial differential equations.

Complex Analysis Jane P. Gilman, Irwin Kra, Rubén E. Rodríguez, 2007-11-25 The authors' aim here is to present a precise and concise treatment of those parts of complex analysis that should be familiar to every research mathematician. They follow a path in the tradition of Ahlfors and Bers by dedicating the book to a very precise goal: the statement and proof of the Fundamental Theorem for functions of one complex variable. They discuss the many equivalent ways of understanding the concept of analyticity and

offer a leisure exploration of interesting consequences and applications Readers should have had undergraduate courses in advanced calculus linear algebra and some abstract algebra No background in complex analysis is required **A Complex Analysis Problem Book** Daniel Alpay, 2016-10-26 This second edition presents a collection of exercises on the theory of analytic functions including completed and detailed solutions It introduces students to various applications and aspects of the theory of analytic functions not always touched on in a first course while also addressing topics of interest to electrical engineering students e g the realization of rational functions and its connections to the theory of linear systems and state space representations of such systems It provides examples of important Hilbert spaces of analytic functions in particular the Hardy space and the Fock space and also includes a section reviewing essential aspects of topology functional analysis and Lebesgue integration Benefits of the 2nd edition Rational functions are now covered in a separate chapter Further the section on conformal mappings has been expanded

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