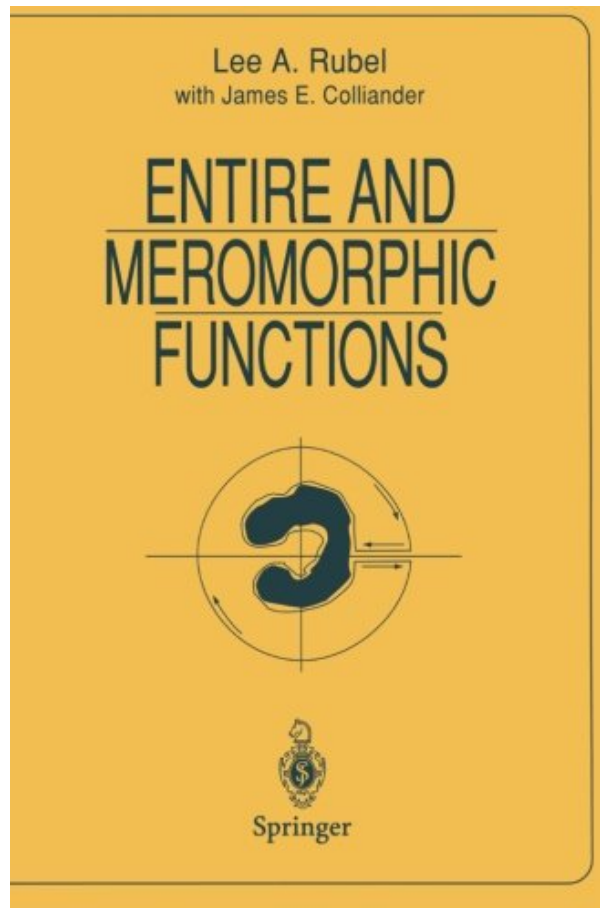


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Review

From the reviews:

"This book grew out of lectures from courses given at the University of Illinois in 1993, and earlier. It is written at a level which assumes only a reasonable first course in complex analysis and knowledge of some standard results about the representation of linear functionals....The book is divided into 24 relatively short chapters, and, although some of the later material depends on earlier material, the reader who already has some knowledge of the general subject from other sources should be able to go directly to one of the later sections of the book without undue difficulties.

This book is a very welcome addition to the resources available for learning about entire and meromorphic functions." (P. Lappan, Mathematical Reviews)

From the Back Cover

The book is an introduction to the theory of entire and meromorphic functions intended for advanced graduate students in mathematics and for professional mathematicians. The book provides a clear treatment of the Nevanlinna theory of value distribution of meromorphic functions, starting from scratch. It contains the first book-form presentation of the Rubel-Taylor Fourier series method for meromorphic functions and the Miles theorem on efficient quotient representation. It has a concise but complete treatment of the Polya theory of the Borel transform and the conjugate indicator diagram. It contains some of Buck's results on integer-valued entire functions, and the Malliavin-Rubel uniqueness theorem. The book closes with applications to mathematical logic. In particular, the first-order theory of the ring of entire functions is developed and questions concerning identities of exponential functions are studied as in Tarski's "High School Algebra Problems". The approach of the book gets to the heart of the matter without excessive scholarly detours. It prepares the reader for further study of the vast literature on the subject, which is one of the cornerstones of complex analysis.

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ENTIRE AND MEROMORPHIC FUNCTIONS (UNIVERSITEXT) BY LEE A. RUBEL PDF

Mathematics is a beautiful subject, and entire functions is its most beautiful branch. Every aspect of mathematics enters into it, from analysis, algebra, and geometry all the way to differential equations and logic. For example, my favorite theorem in all of mathematics is a theorem of R. Nevanlinna that two functions, meromorphic in the whole complex plane, that share five values must be identical. For real functions, there is nothing that even remotely corresponds to this. This book is an introduction to the theory of entire and meromorphic functions, with a heavy emphasis on Nevanlinna theory, otherwise known as value-distribution theory. Things included here that occur in no other book (that we are aware of) are the Fourier series method for entire and meromorphic functions, a study of integer valued entire functions, the Malliavin Rubel extension of Carlson's Theorem (the "sampling theorem"), and the first-order theory of the ring of all entire functions, and a final chapter on Tarski's "High School Algebra Problem," a topic from mathematical logic that connects with entire functions. This book grew out of a set of classroom notes for a course given at the University of Illinois in 1963, but they have been much changed, corrected, expanded, and updated, partially for a similar course at the same place in 1993. My thanks to the many students who prepared notes and have given corrections and comments.

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