where either $\rho(x) \to \infty$ or $\rho(x) \to 0$ as $x \to \infty$. When such a factor $\rho(x)$ appears the system is said to be resonant, and otherwise nonresonant. The knowledge that resonance can occur goes back to Perron (1930) but the first systematic analysis of resonance and nonresonance appears to be due to Atkinson (1954).

Other applications of Levinson's theorem that the reviewer is familiar with, but not covered in this book, include spectral and scattering theory for ordinary and partial differential operators and to wave propagation in stratified fluids. The reviewer feels sure that there are other applications or possible applications to areas with which he is unfamiliar.

This book is written in the author's usual elegant style. The exposition is crisp, the explanations and proofs are clear. It can certainly be recommended for the bookshelf of anyone interested in its subject matter. Indeed, it can be recommended for anyone who enjoys reading well-written mathematics and learning a bit about a small, but important, corner of mathematics.

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Conformal geometry, Ravi S. Kulkarni and Ulrich Pinkall, eds. Aspects of Mathematics, Friedr. Vieweg & Sohn, Braunsweig and Wiesbaden, 1988, viii + 236 pp. ISBN 3-528-08982-2

The book under review is the proceedings of a seminar on conformal geometry held at the Max-Planck Institute in 1985–1986. This subfield of differential geometry is rather vast and multifaceted, and therefore it would be impossible for a single volume to deal with all aspects of this subject. The book contains several survey articles which deal with various aspects of conformal Riemannian structures, from the points of view of both topology/synthetic-geometry and local differential geometry. From both points of view flat conformal structures play a central role and all of the papers in this volume deal with at least some aspects of the theory of conformally flat manifolds. For this reason this review will concentrate on conformally flat manifolds and will