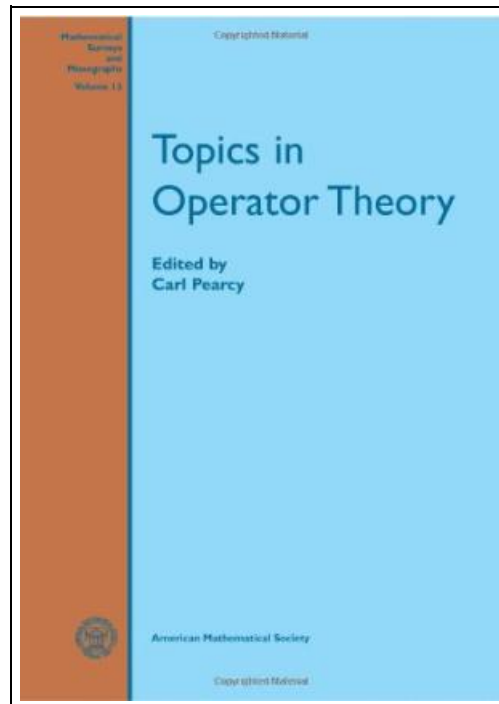# Topics in Operator Theory

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Reviews

I just started off reading this article ebook. It is actually writter in basic words and not confusing. I am just very happy to let you know that this is the best ebook i actually have read through inside my individual daily life and can be he finest ebook for possibly.
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TOPICS IN OPERATOR THEORY

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American Mathematical Society. Paperback. Book Condition: new. BRAND NEW, Topics in Operator Theory, Carl M. Pearcy, The five articles in this volume are expository in nature, and they all deal with various aspects of the theory of bounded linear operators on Hilbert space. The volume is very timely, because in the last year or two great progress has been made on hard problems in this field, and thus operator theory today is a very exciting part of mathematical research. One particular problem on which considerable progress has been made recently is the invariant subspace problem. This is the question whether every bounded linear operator on a separable, infinite-dimensional, complex Hilbert space $\mathcal H$ has a nontrivial invariant subspace.Even though this problem remains unresolved, there are some operators T on $\mathcal H$ for which the structure of a lattice of all invariant subspaces of T is even, and the first article in this volume, 'invariant subspaces' by Donald Sarason, is added to a discussion of such operators. One of the interesting features of this lucid presentation is the interplay between operator theory and classical analysis. The second article is entitled 'Weighted shift operators and analytic function theory' and was written by Allen Shields. He has taken essentially all of the information presently given about weighted shift operators (with scalar weights) and incorporated it into this comprehensive article.A central theme of the composition is the interaction between weighted shift operators and analytic function theory, and in an added bonus for the reader, the article contains a list of thirty-two interesting research problems. The third article in the volume is a treatise called 'A version of multiplicity theory' by Arlen Brown. The problem treated is how to decide when two normal operators are unitarily equivalent. (Unitary equivalence is the analog for operators of...

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