

MA-616 SPECTRAL THEORY IN HILBERT SPACES

Spectral analysis of unitary and self-adjoint operators: resolution of the identity, integral representations. The Cayley transform. Spectral types, commutative operators. Rings of bounded self-adjoint operators and their examples.

RECOMMENDED BOOKS:

1. Akhiezer and Glazman., Theory of linear operators: Vol. II, Frederick Ungar Publishing Co., 1963.
2. Naimark, M., Theory of Differential Operators, George Harrap and Co., 1967.