Title:	Spectral Theory of Normal Operators
Authors:	Das, Biplab
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Abstract:	We discuss the spectral theory of bounded normal operators on Hilbert Space and functional cal- culus, as well as the Gelfand-Neimark-Segal construction of C □ -algebras, also discuss symmetric extensions of unbounded operators. We begin by introducing the spectral theory for compact self-adjoint operators and then extend it to compact normal operators. We also discuss the idea of the spectrum for Banach algebras and explores complex analysis for operator-valued functions, including integration and Cauchy integral formula. Finally, we discuss the concept of unbounded operators and provides the idea of symmetric self-adjoint extensions of closed symmetric unbounded operators
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