1. Record Nr. UNINA9910688212803321 Functional calculus / / edited by Kamal Shah, Bawer Okutmustur Titolo London, England:,: IntechOpen,, 2020 Pubbl/distr/stampa Descrizione fisica 1 online resource (202 pages) Disciplina 515.7 Soggetti Functional analysis Spectral theory (Mathematics) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia The aim of this book is to present a broad overview of the theory and Sommario/riassunto applications related to functional calculus. The book is based on two main subject areas: matrix calculus and applications of Hilbert spaces. Determinantal representations of the core inverse and its generalizations, new series formulas for matrix exponential series, results on fixed point theory, and chaotic graph operations and their fundamental group are contained under the umbrella of matrix calculus. In addition, numerical analysis of boundary value problems of fractional differential equations are also considered here. In addition, reproducing kernel Hilbert spaces, spectral theory as an application of Hilbert spaces, and an analysis of PM10 fluctuations and optimal control are all contained in the applications of Hilbert spaces. The concept of this book covers topics that will be of interest not only for students but also for researchers and professors in this field of

theoretical foundations in this book.

mathematics. The authors of each chapter convey a strong emphasis on