1. Record Nr.   UNINA9910796784303321

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   Titolo   Denseness, bases and frames in banach spaces and applications / / Aref Jeribi

   Pubbl/distr/stampa Berlin ; ; Boston : , : De Gruyter, , [2018]
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   ISBN   3-11-049240-7
                     3-11-049386-1

   Descrizione fisica 1 online resource (421 pages)

   Disciplina   515.732

   Soggetti   Banach spaces

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

   Nota di contenuto Frontmatter -- Preface -- Contents -- 1. Introduction -- 2. Linear operators -- 3. Basic notations and results -- 4. Bases -- 5. Semi-groups -- 6. Discrete operator and denseness of the generalized eigenvectors -- 7. Frames in Hilbert spaces -- 8. Summability of series -- 9. -convergence operators -- 10. -hypercyclic set of linear operators -- 11. Analytic operators in Béla Szökefalvi-Nagy's sense -- 12. Bases of the perturbed operator T() -- 13. Frame of the perturbed operator T() -- 14. Perturbation method for sound radiation by a vibrating plate in a light fluid -- 15. Applications to mathematical models -- 16. Reggeon field theory -- Bibliography -- Index

   Sommario/riassunto This book is devoted to recent developments concerning linear operators, covering topics such as the Cauchy problem, Riesz basis, frames, spectral theory and applications to the Gribov operator in Bargmann space. Also, integral and integro-differential equations as well as applications to problems in mathematical physics and mechanics are discussed. ContentsIntroductionLinear operatorsBasic notations and resultsBasesSemi-groupsDiscrete operator and denseness of the generalized eigenvectorsFrames in Hilbert spacesSummability of series-convergence operators-hypercyclic set of linear operatorsAnalytic operators in Béla Szökefalvi-Nagy's senseBases of the perturbed operator T() Frame of the perturbed operator T() Perturbation method for sound radiation by a vibrating