

1. Record Nr.	UNINA9910483469003321
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Titolo	Operators between sequence spaces and applications // Bruno de Malafosse, Eberhard Malkowsky, Vladimir Rakocevic
Pubbl/distr/stampa	Singapore : , : Springer, , [2021] Â©2021
ISBN	981-15-9742-1
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XX, 366 p. 1 illus.)
Disciplina	515.724
Soggetti	Operator theory Sequences (Mathematics) - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Introduction -- 2. Matrix Domains -- 3. Operators between Matrix Domains -- 4. Statistical Convergence -- 5. Inclusion Equations -- 6. Sequence Space Equations -- 7. Solvability.
Sommario/riassunto	This book presents modern methods in functional analysis and operator theory along with their applications in recent research. The book also deals with the solvability of infinite systems of linear equations in various sequence spaces. It uses the classical sequence spaces, generalized Cesaro and difference operators to obtain calculations and simplifications of complicated spaces involving these operators. In order to make it self-contained, comprehensive and of interest to a larger mathematical community, the authors have presented necessary concepts with results for advanced research topics. This book is intended for graduate and postgraduate students, teachers and researchers as a basis for further research, advanced lectures and seminars.