

Partially Specified Matrices and Operators: Classification, Completion, Applications (Operator Theory: Advances and Applications)



This book is devoted to a new direction in linear algebra and operator theory that deals with the invariants of partially specified matrices and operators, and with the spectral analysis of their completions. The theory developed centers around two major problems concerning matrices of which part of the entries are given and the others are unspecified. The first is a classification problem and aims at a simplification of the given part with the help of admissible similarities. The results here may be seen as a far reaching generalization of the Jordan canonical form. The second problem is called the eigenvalue completion problem and asks to describe all possible eigenvalues and their multiplicities of the matrices which one obtains by filling in the unspecified entries. Both problems are also considered in an infinite dimensional operator framework. A large part of the book deals with applications to matrix theory and analysis, namely to stabilization problems in mathematical system theory, to problems of Wiener-Hopf factorization and interpolation for matrix polynomials and rational matrix functions, to the Kronecker structure theory of linear pencils, and to non everywhere defined operators. The eigenvalue completion problem has a natural associated inverse, which appears as a restriction problem. The analysis of these two problems is often simpler when a solution of the corresponding classification problem is available.

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partially specified matrix with a classification problem which aims at a simplification of the specified part with of linear operators II , Operator Theory: Advances and Applications , 63 **Principal Blocks - Springer** Kop Partially Specified Matrices and Operators: Classification, Completion, Applications av Prof Both problems are also considered in an infinite dimensional operator framework. A large part of the book deals with applications to matrix theory and analysis, namely to stabilization Recent Advances in Operator Theory. **Partially Specified Matrices and Operators: Classification - Springer** Partially Specified Matrices and Operators: Classification, Completion, Volume 79 of the series Operator Theory Advances and Applications pp 113-138 **Partially Specified Matrices and Operators (OPERATOR THEORY** Part of the Operator Theory: Advances and Applications book series (OT, volume 171) The first concerns convolution integral operators on a finite interval with matrix valued kernel The research of the third author was partially supported by a visitor Partially specified matrices and operators: classification, completion, **General Blocks - Springer** Current regulations for the Croatian Distribution System Operator regarding power quality are defined on the basis of the EN 50160 standard [1]. 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Partially Specified Matrices and Operators: Classification, Completion, Applications. Autoren: **Modelling and Application of Secondary Circuit Signals for Power** Operator Theory: Advances and Applications, vol. 1. F. van Schagen, Partially Specified Matrices and Operators: Classification, Completion, Applications. **Recent Advances in Operator Theory: The Israel Gohberg Anniversary - Google Books Result** : Partially Specified Matrices and Operators: Classification, Completion, Applications (Operator Theory Advances and Applications) **set theory: on the structure of the real line - Wiley Online Library** J.A. BALL, I. GOHBERG AND M.A. KAASHOEK, Input-output operators of J-unitary time-varying based matrix functions, Linear Algebra and its Applications, vol 248 1996 111-136. . Partially Specified Matrices and Operators: Classification, Completion, Applications, Operator Theory: Advances and Applications Vol. **Partially Specified Matrices and Operators: Classification** Partially Specified Matrices and Operators: Classification, Completion, M.A. Kaashoek, F. van Schagen,: Inverting structured operators related to Toeplitz plus In: Operator Theory, Advances and Applications, Structured Matrices and **Factorization Versus Invertibility of Matrix Functions on Compact** Partially Specified Matrices and Operators: Classification, Completion, Applications juz od 461,50 zl OPERATOR THEORY: ADVANCES AND APPLICATIONS. **2.1. 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