

Characteristic functions and models of nonself-adjoint operators

Kluwer Academic - Characteristic Functions of Maximal Sectorial Operators



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Venevitchin, D. V. 1805-1827

Odoevskii, V. F. kniaz', 1803-1869

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Characteristic Functions of Maximal Sectorial Operators

The characteristic function is a mathematical object a matrix or an operator associated with a class of nonself-adjoint or nonunitary operators that describes the spectral properties of the operators from this class.

A. Kuzhel: Characteristic Functions and Models of Nonself

Steklov, and others, in the investigation of problems for ordinary differential equations. A Criterion of Unitary Equivalence.

Characteristic Functions and Models of Nonself

For given characteristic function of an operator A , we construct, in explicit form, an operator that serves as a model A of the operator A in a certain linear space to some extent this resembles the construction of diagonal and triangular matrices' unitary equivalent or similar, to certain matrix classes.

Non

These studies applied Cauchy's method of contour integration to the resolvent.

Characteristic Functions of Maximal Sectorial Operators

Over the last decades, the study of nonself-adjoint or nonunitary operators has been mainly based on the method of characteristic functions and on methods of model construction or dilatation for corresponding operator classes.

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