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Sturm-Liouville theory - Wikipedia

The spectral theory of Sturm-Liouville operators is a classical domain of analysis, comprising a wide variety of problems. Besides the basic results on the structure of the spectrum and the eigenfunction expansion of regular and singular Sturm-Liouville problems, it is in this domain that one-dimensional quantum scattering theory, inverse spectral problems, and the surprising connections of ...

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The spectral theory of Sturm-Liouville operators is a classical domain of analysis, comprising a wide variety of problems. This book aims to show what can be achieved with the aid of transformation operators in spectral theory as well as their applications. Inverse Sturm-Liouville Problems and Their Applications

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The spectral expansion of a Sturm-Liouville operator in the case of a discrete spectrum (for example, in 1) and $\$ 2_2 \{2\} \$$) is similar to the Fourier expansion in eigenfunctions of the Sturm-Liouville problem, and in the other cases it contains eigenfunctions that are not in $\$ L_2 \{2\} (a, b) \$$.

Sturm-Liouville operator - Encyclopedia of Mathematics

Sturm-Liouville operatorS and applications (Operator Theory: Advances and Applications) Vladimir A. Marchenko AMS CHELSEA PUBLISHING American Mathematical Society • Providence, Rhode Island ΑΓΕΩΜΕΤΡΙΚΟ ΤΡΑΠΕΖΙΟ ΜΗΤΡΩΟ ΤΗΣ ΑΝΑΛΥΣΗΣ ΑΡΧΑΙΑΣ ΚΑΙ ΝΕΥΤΩΝΙΑΝΗΣ ΜΑΘΗΜΑΤΙΚΗΣ ΕΤΕΡΩΤΗΤΟΣ

STURM-LIOUVILLE OPERATORS APPLICATIONS

Sturm—Liouville and Dirac Operators (Mathematics and its Applications (59)) 1991st Edition by Levitan (Author), I.S. Sargsjan (Author) ISBN-13: 978-0792309925

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operator that possesses just the right properties (self-adjointness to carry out this procedure. The resulting operator is referred to as a Sturm-Liouville operator. We will highlight some of the properties of such operators and prove a few key theorems, though this will not be an extensive review of Sturm-Liouville theory.

6 Sturm-Liouville Eigenvalue Problems

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A decisive step in the further development of the theory of inverse problems was the application of so-called operator-transform techniques (see Sturm-Liouville equation), which was naturally developed in the framework of the theory of generalized shift operators (see).

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The problem (1.1) - (1.2) is called the Sturm-Liouville operator with frozen argument, which has many applications in physics, mathematics and engineering (see). Inverse spectral problem for differential operators is to recover this operator from its spectral data.

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