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### Sturm Liouville Operators And Applications

In mathematics and its applications, classical Sturm–Liouville theory is the theory of real second-order linear ordinary differential equations of the form:  $y'' + p(x)y' + q(x)y = r(x)$ , for given coefficient functions  $p(x)$ ,  $q(x)$ , and  $w(x) > 0$  and an unknown function  $y$  of the free variable  $x$ . The function  $w(x)$ , sometimes denoted  $r(x)$ , is called the weight or density function.

### 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 ...

### Sturm-Liouville Operators and Applications: Revised Edition

Sturm-Liouville Operators and Applications. Authors (view affiliations) Vladimir A. Marchenko; Book. 374 Citations; 215 Downloads; Part of the Operator Theory: Advances and Applications book series (OT, volume 22) Log in to check access. Buy eBook. USD 54.99 ...

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### STURM-LIOUVILLE OPERATORS APPLICATIONS

The development of many important directions of mathematics and physics owes a major debt to the concepts and methods which evolved during the investigation of such simple objects as the Sturm-Liouville equation  $y'' + q(x)y = zy$  and the allied Sturm-Liouville operator  $L = -d/dx + q(x)$  (lately Land  $q(x)$  are often termed the one-dimensional Schrodinger operator and the potential).

### Sturm-Liouville Operators and Applications - Vladimir ...

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### Sturm-Liouville operators and applications. (Book, 1986 ...

The spectral theory of Sturm-Liouville operators is a classical domain of analysis, comprising a wide variety of problems. The main goal of this book is to show what can be achieved with the aid of transformation operators in spectral theory as well as in their applications.

### STURM-LIOUVILLE OPERATORS AND APPLICATIONS (AMS CHELSEA By ...

The inverse spectral problems are studied for the Sturm-Liouville operator on the star-shaped graph and for the matrix Sturm-Liouville operator with the boundary condition in the general self ...

### (PDF) Inverse Sturm-Liouville Problems and Their Applications

This paper further improves the Lie group method with Magnus expansion proposed in a previous paper by the authors, to solve some types of direct singular Sturm-Liouville problems. Next, a concrete implementation to the inverse Sturm-Liouville problem algorithm proposed by Barcion (1974) is provided. Furthermore, computational feasibility and applicability of this algorithm to solve ...

### Solutions of Sturm-Liouville Problems

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### Sturm-Liouville operators and applications (Book, 2011 ...

The spectral expansion of a Sturm-Liouville operator in the case of a discrete spectrum (for example, in 1) and  $\int_a^b q(x) dx < \infty$ ) 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  $L^2(a, b)$ .

### Sturm-Liouville operator - Encyclopedia of Mathematics

Sturm-Liouville operator treated in this thesis is also self-adjoint. In chapter5 the Sturm-Liouville problem itself will be discussed together with its spectral properties. Several statements concerning the eigenvalues and eigenfunctions will be proven. Finally in section6some applications of the Sturm-Liouville

### The Sturm -Liouville Problem

Marchenko V.A. (1986) The Sturm-Liouville Equation and Transformation Operators. In: Sturm-Liouville Operators and Applications. Operator Theory: Advances and Applications, vol 22.

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