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In mathematics and its applications, classical Sturm-Liouville theory is the theory of real second-order linear ordinary differential equations of the form:  $[p(x)y']' + q(x)y = -\lambda w(x)y$ , 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.

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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  $y'' + q(x)y = \lambda y$  and the allied Sturm-Liouville operator  $L = -d^2/dx^2 + q(x)$  (lately  $L$  and  $q(x)$  are often termed the one-dimensional Schrodinger operator and the potential).

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spectral theory as well as in their  
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## **Solutions of Sturm-Liouville Problems**

Sturm-Liouville Operators and Applications: Revised Edition Vladimir A. Marchenko Publication Year: 2011



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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  $2)_{\{2\}}$   $\$))$  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  $L_{\{2\}}$   $(a, b) \$$ .

## **Sturm-Liouville operator - Encyclopedia of Mathematics**

Sturm-Liouville operator treated in this thesis is also self-adjoint. In chapter5 the

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Sturm-Liouville problem itself will be discussed together with its spectral properties. Several statements concerning the eigenvalues and eigenfunctions will be proven. Finally in section 6 some 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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