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Sturm-Liouville Theory
In 1836 and 1837,

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Sturm and Liouville published a series of papers on second order linear ordinary differential operators, which began the subject now known as the Sturm–Liouville theory. In 1910, Hermann Weyl published an article which started the study of singular Sturm–Liouville problems.

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Sturm-Liouville Theory
About this Title. Anton
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Sturm-Liouville theory studies the existence and asymptotic behavior of the eigenvalues, the corresponding qualitative theory of the eigenfunctions and their completeness in the function space. This theory is important in applied mathematics, where S-

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L problems occur very commonly, particularly when dealing with separable linear partial differential equations .

Sturm-Liouville theory - Wikipedia

In 1836-1837 Sturm and Liouville published a series of papers on second order linear ordinary differential equations including boundary value problems. The influence of their work

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was such that this subject became known as Sturm-Liouville theory. The impact of these papers went well beyond their subject matter to gen

Sturm-Liouville Theory - American Mathematical Society

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**AMS :: Zettl: Sturm-
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AMS Chelsea

Publishing: An Imprint
of the American

Mathematical Society

The spectral theory of
Sturm-Liouville

operators is a classical
domain of analysis,
comprising a wide
variety of problems.

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Sturm-Liouville Operators and Applications: Revised Edition

Sturm-Liouville theory
Sturm-Liouville
problems (cf.
Sturm-Liouville
problem) have
continued to provide
new ideas and
interesting
developments in the
spectral theory of
operators (cf. also
Spectral theory).

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Consider the Sturm-Liouville differential equation on the half-line $0 \leq x < \infty$, in its reduced form

Sturm-Liouville theory - Encyclopedia of Mathematics

Abstract: The classical Prüfer transformation has proved to be a useful tool in the study of Sturm-Liouville theory. In this paper

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we introduce the Prüfer transformation for self-adjoint difference equations and use it to obtain oscillation criteria and other results.

AMS :: Proceedings of the American Mathematical Society

A Sturm-Liouville equation is a second order linear differential equation that can be written in the form

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$(p(x)y')' + (q(x) + \lambda r(x))y = 0$. Such an equation is said to be in Sturm-Liouville form. Here p, q and r are specific functions, and λ is a parameter. Because λ is a parameter, it is frequently replaced by other variables or expressions.

Introduction to Sturm-Liouville Theory

The eigenfunctions of a
Sturm-Liouville

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problem can be chosen to be real. Proposition 4 Let λ be an eigenvalue of a regular or periodic Sturm-Liouville problem. Then the subspace spanned by the eigenfunctions corresponding to λ admits an orthonormal basis of real-valued functions. Proof: The result is trivially true if λ is a simple eigenvalue.

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**Eigenfunctions and
Eigenvalues**

AMS Mathematics

Subject Classification
(2010): 34A55 34B07
34B09 34B45 34L40

47E05 1 Introduction

The paper aims to give
spectral data

characterization for the
Sturm-Liouville

operator on a
geometrical graph.

Differential operators
on graphs, also called
quantum graphs, are

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Classification
(2010): arXiv:2009**

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The spectral theory of
Sturm-Liouville
operators is a classical
domain of analysis,

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comprising a wide variety of problems.

Sturm-Liouville Operators and Applications (AMS Chelsea ...

Furthermore, linear equations are considered, including the Floquet theorem, and some perturbation results. As somewhat independent topics, the Frobenius method for linear equations in the complex domain is

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established and Sturm–Liouville boundary value problems, including oscillation theory, are investigated.

Ordinary Differential Equations and Dynamical Systems

"As this book amply demonstrates, Sturm–Liouville theory, a special topic within ordinary differential equations, affords the student a nearly

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perfect case-study-type initiation into higher mathematics. ...

Summing Up:

Recommended.

General readers, undergraduates, professionals." (D. V. Feldman, Choice, Vol. 46 (2), October, 2008)

Sturm-Liouville Theory and its Applications (Springer ...

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Ordinary Differential

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Equations: ... * Sturm-Liouville problem; * Eigenvalue and eigenfunctions; * Cylindrical coordinate problem, Bessel equation; * Spherical coordinate problem, Legendre equation. AMS 500. AMS 501. AMS 502. AMS 503. AMS 506 ...

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