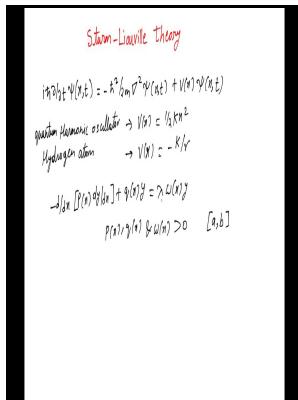


Sturm-Liouville theory

American Mathematical Society - 10.6: Sturm

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Mathematical surveys and monographs -- no. 121.
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 Notes: Includes bibliographical references (p. 303-326) and index.
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Examples include classical equations and functions associated with Bessel, Fourier, Heun, Ince, Jacobi, Jörgens, Latzko, Legendre, Littlewood-McLeod, Mathieu, Meissner, and Morse; also included are examples associated with the harmonic oscillator and the hydrogen atom. In 1910 Hermann Weyl published an article which started the study of singular Sturm—Liouville problems.

Sturm

We also acknowledge previous National Science Foundation support under grant numbers 1246120, 1525057, and 1413739. For example, in , the one-dimensional time-independent is a S-L problem

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This representation may require a infinite sum

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Sturm

} This can be seen formally by using twice, where the boundary terms vanish by virtue of the boundary conditions. The Sturm-Liouville form of the equation helps understand the spectral of two-body system

Sturm

An extensive list of references and examples is provided and numerous open problems are given. Direct and Inverse Sturm-Liouville Problems: A Method of Solution.

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