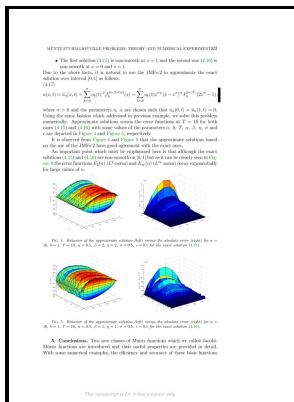


# Numerical solution of Sturm-Liouville problems

Clarendon Press - 13.2: Sturm



Description: -

- Sturm-Liouville equation -- Numerical solutions. Numerical solution of Sturm-Liouville problems

- Monographs on numerical analysis. Numerical solution of Sturm-Liouville problems

Notes: Includes bibliographical references (p. [303]-313) and index. This edition was published in 1993



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**Numerical solution of Sturm**

The corresponding theory that is known as Sturm--Liouville theory originated in two articles by the French mathematician of German decent 1803--1855.

**13.2: Sturm**

The mathematical representation of this model is given by a partial differential equation for a vibrating string. First we recall one condition under which two geometric entities intersect transversally.

**NUMERICAL METHODS FOR CHEMICAL ENGINEERING BEERS SOLUTIONS**

His primary interests were fluid mechanics and differential equations. . It provides a power series expansion for the corresponding exponent and is sometimes referred to as Time-Dependent Exponential Perturbation Theory.

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In particular, we comment on our investigation of efficient discretization schemes for the integrals which arise in Fer streamers.

**13.2: Sturm**

A signi cant common phenomenon in all these applications is that the ph. We discuss examples of the numerical implementation of the SPSS method and show it to be equally applicable to a wide class of singular Sturm-Liouville problems as well as to problems with spectral parameter

dependent boundary conditions. The transformation  $T$  is said to accelerate the convergence of the sequence  $S_n$  if and only if  $\lim_{n \rightarrow \infty} n! S_n$  exists. Sturm held the chair of mechanics at the Sorbonne and was elected a member of the Académie des Sciences.

## NUMERICAL METHODS FOR CHEMICAL ENGINEERING BEERS SOLUTIONS

. We consider a recently discovered representation for the general solution of the Sturm-Liouville equation as a spectral parameter power series (SPPS). Furthermore, the performance of real-time implementations is discussed.

### Numerical solution of Sturm

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