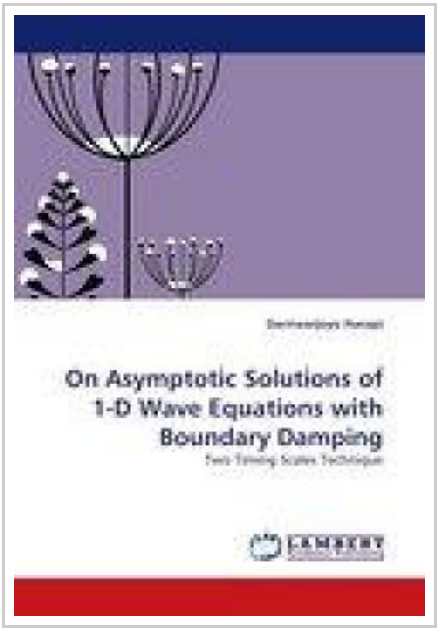

On Asymptotic Solutions of 1-D Wave Equations with Boundary Damping

By Darmawijoyo Hanapi

LAP Lambert Acad. Publ. Mai 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x10 mm. This item is printed on demand - Print on Demand Neuware - There are examples of flexible structures such as suspension bridges, overhead transmission lines, and dynamically loaded helical springs that are subjected to oscillations due to different causes, such as windflows or earthquakes. In some cases, the so-resulted oscillations may cause undesirable behaviour. In some flexible structures (such as an overhead transmission line or a cable of a suspension bridge) various types of wind-induced mechanical vibrations can occur. Vortex shedding for instance causes usually high frequency oscillations with small amplitudes, whereas low frequency vibrations with large amplitudes can be caused by flow-induced oscillations (galloping) of cables on which ice or snow has accreted. These vibrations can give rise to material fatigue. To suppress these oscillations various types of dampers have been applied in practice. Simple models which describe these oscillations can be expressed in initial-boundary value problems for wave equations or for beam equations. The operator and boundary conditions describing these problems are usually of a non-selfadjoint nature. 164 pp. Englisch.

Reviews

This book might be worth a read, and superior to other. Of course, it really is engage in, still an interesting and amazing literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- ***Prof. Valentin Hane MD***

A top quality ebook and the typeface used was interesting to read through. It is rally intriguing throgh reading through period. You wont feel monotony at anytime of the time (that's what catalogues are for relating to when you ask me).

-- ***Estelle Donnelly***