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## Natural Frequencies of Thin Rectangular Plates using Homotopy-Perturbation Method

Meng Koon Lee , Mohammad Hosseini Fouladi ,  
Satesh Narayana Namasivayam

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**Highlights**

- Homotopy Perturbation Method yields natural frequencies of thin rectangular plates
- An irregular-shaped plate can be analysed using an equivalent rectangular plate
- A guitar soundboard was used as a specific case of an irregular-shaped plate
- Results compared well with those from numerical as well as analytical solutions



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