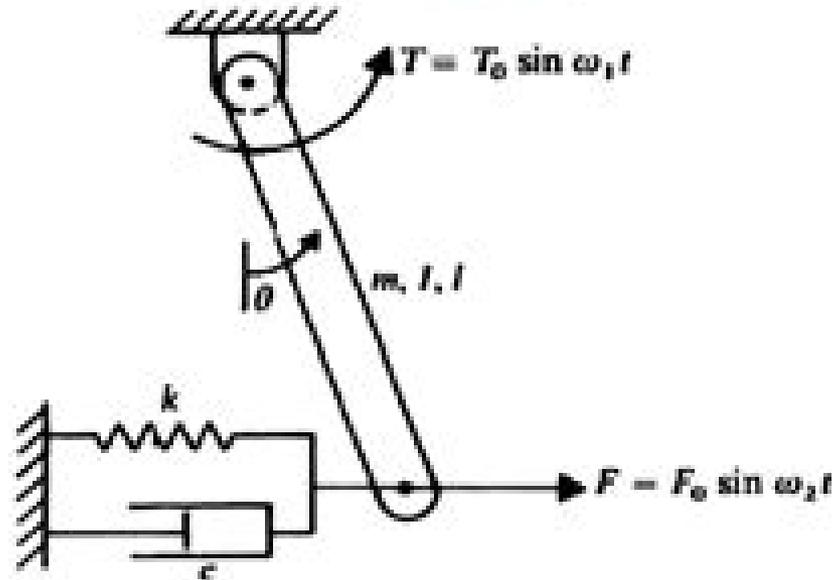


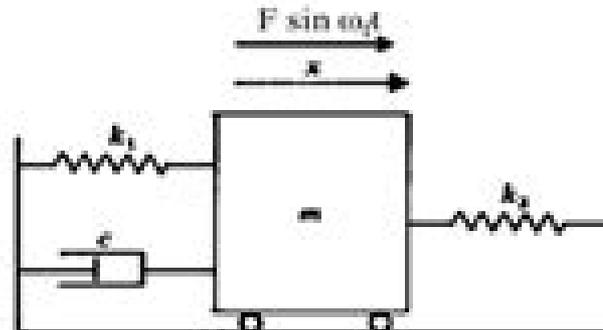
Vibration Absorber Design
MEC480 Mechanical Vibration

For the following problems design a vibration Absorber to suppress the vibration of the main system.

- 1) For the system shown in the figure below knowing that $m = 0.5 \text{ kg}$, $l = 0.5 \text{ m}$, $k = 1000 \text{ N/m}$, $c = 0 \text{ N.s/m}$, and the beam is a uniform slender beam; the forcing functions are $F = 40 \sin 20t \text{ N}$ and $T = 0 \text{ N.m}$. Design a vibration Absorber to suppress the rod vibration.



- 2) For the system shown in Figure below, let $m = 3 \text{ kg}$, $k_1 = k_2 = 1350 \text{ N/m}$, $c = 0 \text{ N.s/m}$, and $F = 10 \sin 15t$ acting on the mass m . Design a vibration Absorber to suppress the main mass vibration.



Mechanical Vibration Solved Problems

William W. Seto



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Schaum's Outline of Theory and Problems of Mechanical Vibrations William W. Seto, 1964 *Mechanical Vibration* Ivana Kovacic, Dragi Radomirovic, 2017-07-25 Mechanical oscillators in Lagrange's formalism a thorough problem solved approach This book takes a logically organized clear and thorough problem solved approach at instructing the reader in the application of Lagrange's formalism to derive mathematical models for mechanical oscillatory systems while laying a foundation for vibration engineering analyses and design Each chapter contains brief introductory theory portions followed by a large number of fully solved examples These problems inherent in the design and analysis of mechanical systems and engineering structures are characterised by a complexity and originality that is rarely found in textbooks Numerous pedagogical features explanations and unique techniques that stem from the authors extensive teaching and research experience are included in the text in order to aid the reader with comprehension and retention The book is rich visually including numerous original figures with high standard sketches and illustrations of mechanisms Key features Distinctive content including a large number of different and original oscillatory examples ranging from simple to very complex ones Contains many important and useful hints for treating mechanical oscillatory systems Each chapter is enriched with an Outline and Objectives Chapter Review and Helpful Hints Mechanical Vibration Fundamentals with Solved Examples is essential reading for senior and graduate students studying vibration university professors and researchers in industry

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Undamped Continuous Systems Are Also Covered Numerical Methods Like Holzers And Myklestads Are Also Presented In Matrix Form Finite Element Method For Vibration Problem Is Also Included Nonlinear Vibration And Random Vibration Analysis Of Mechanical Systems Are Also Presented The Emphasis Is On Modelling Of Engineering Systems Examples Chosen Even Though Quite Simple Always Refer To Practical Systems Experimental Techniques In Vibration Analysis Are Discussed At Length In A Separate Chapter And Several Classical Case Studies Are Presented Though The Book Is Primarily Intended For An Undergraduate Course In Mechanical Vibrations It Covers Some Advanced Topics Which Are Generally Taught At Postgraduate Level The Needs Of The Practising Engineers Have Been Kept In Mind Too A Manual Giving Solutions Of All The Unsolved Problems Is Also Prepared Which Would Be Extremely Useful To Teachers

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