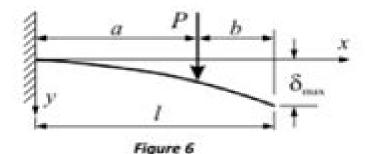
(a) A cantilever beam shown in Figure 6 is subjected to a concentrated load P. Deflection of the beam at each point can be defined by the following equations:

$$y = \frac{Px^2}{6EI}(3a - x) \text{ for } 0 < x < a$$
$$y = \frac{Pa^2}{6EI}(3x - a) \text{ for } a < x < l$$

The following MATLAB code calculates and plots the deflection diagram for a beam with I = 4 m, a = 3 m, b = 1 m, $E = 210 \times 10^5$ Pa, $I = 285 \times 10^6$ m⁴ and P = 20 kN. Find at least <u>FOUR errors</u> in the code. For each error identified, explain why the error is caused.



(8 marks)

Dynamic Analysis Cantilever Beam Matlab Code

Julian Rodriguez (Graduate student)

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Vibration Simulation Using MATLAB and ANSYS Michael R. Hatch, 2000-09-21 Transfer function form zpk state space modal and state space modal forms For someone learning dynamics for the first time or for engineers who use the tools infrequently the options available for constructing and representing dynamic mechanical models can be daunting It is important to find a way to put them all in perspective and have them available for quick reference It is also important to have a strong understanding of modal analysis from which the total response of a system can be constructed Finally it helps to know how to take the results of large dynamic finite element models and build small MATLAB state space models Vibration Simulation Using MATLAB and ANSYS answers all those needs Using a three degree of freedom DOF system as a unifying theme it presents all the methods in one book Each chapter provides the background theory to support its example and each chapter contains both a closed form solution to the problem shown in its entirety and detailed MATLAB code for solving the problem Bridging the gap between introductory vibration courses and the techniques used in actual practice Vibration Simulation Using MATLAB and ANSYS builds the foundation that allows you to simulate your own real life problems Features Demonstrates how to solve real problems covering the vibration of systems from single DOF to finite element models with thousands of DOF Illustrates the differences and similarities between different models by tracking a single example throughout the book Includes the complete closed form solution and the MATLAB code used to solve each problem Shows explicitly how to take the results of a realistic ANSYS finite element model and develop a small MATLAB state space model Provides a solid grounding in how individual modes of vibration combine for overall system response **Fundamentals of** Structural Dynamics Roy R. Craig, Jr., Andrew J. Kurdila, 2011-08-24 FUNDAMENTALS OF STRUCTURAL DYNAMICS From theory and fundamentals to the latest advances in computational and experimental modal analysis this is the definitive updated reference on structural dynamics This edition updates Professor Craig's classic introduction to structural dynamics which has been an invaluable resource for practicing engineers and a textbook for undergraduate and graduate courses in vibrations and or structural dynamics Along with comprehensive coverage of structural dynamics fundamentals finite element based computational methods and dynamic testing methods this Second Edition includes new and expanded coverage of computational methods as well as introductions to more advanced topics including experimental modal analysis and active structures With a systematic approach it presents solution techniques that apply to various engineering disciplines It discusses single degree of freedom SDOF systems multiple degrees of freedom MDOF systems and continuous systems in depth and includes numeric evaluation of modes and frequency of MDOF systems direct integration methods for dynamic response of SDOF systems and MDOF systems and component mode synthesis Numerous illustrative examples help engineers apply the techniques and methods to challenges they face in the real world MATLAB is extensively used throughout the book and many of the m files are made available on the book s Web site Fundamentals of Structural Dynamics

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AIAA Aerospace Sciences Meeting & Exhibit ,2003 MATLAB for All Steps of Dynamic Vibration Test of Structures Abdurrahman Sahin, 2016 With the recent advances in computer technology and digital simulation software it is now possible to rapidly and accurately build computer models for complex linear and nonlinear dynamic systems MATLAB is a unique system that can be used for structural and earthquake engineering problems This study presents MATLAB tools developed for numerical process of all steps of dynamic vibration test of structures The functions of the tools are processing the signals obtained from forced and ambient vibration tests of structures determining the dynamic characteristics of structural systems and automatically updating the analytical finite element FE models The software group is composed of three programs named as SignalCAD ModalCAD and FemUP The SignalCAD program is developed for processing raw measured data obtained from forced and ambient vibration tests of engineering structures The ModalCAD program is developed for dynamic characteristic identification and validation procedure The peak picking method complex exponential method and polyreference time domain method are used for modal identification process The FemUP program is developed for automatically updating the numerical models of structures compared to modal testing results Each program has a unique graphical user interface and is designed as user friendly. The possibilities of the programs are demonstrated with the model vibration test of a steel cantilever beam The obtained results are compared to the analytical model and the FE model is automatically updated whereas the experimental model is considered as the reference model Finally it is seen that MATLAB can be used as a scientific programming platform in all vibration test and modal analysis applications Fundamentals of Mechanical Vibrations Liang-Wu Cai, 2016-04-25 This introductory book covers the most .1999 fundamental aspects of linear vibration analysis for mechanical engineering students and engineers Consisting of five major topics each has its own chapter and is aligned with five major objectives of the book It starts from a concise rigorous and yet accessible introduction to Lagrangian dynamics as a tool for obtaining the governing equation s for a system the starting point of vibration analysis The second topic introduces mathematical tools for vibration analyses for single degree of freedom systems In the process every example includes a section Exploring the Solution with MATLAB This is intended to develop student's affinity to symbolic calculations and to encourage curiosity driven explorations. The third topic introduces the lumped parameter modeling to convert simple engineering structures into models of equivalent masses and springs The fourth topic introduces mathematical tools for general multiple degrees of freedom systems with many examples suitable for hand calculation and a few computer aided examples that bridges the lumped parameter models and continuous systems The last topic introduces the finite element method as a jumping point for students to understand the theory and the use of commercial software for vibration analysis of real world structures Vibration Simulation Using MATLAB and ANSYS Michael R. Hatch, 2000-09-21 Transfer function form zpk state space modal and state space modal forms For someone learning dynamics for the first time or for engineers who use the tools infrequently the options available for constructing and

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laminated fiber reinforced periodic cantilever beam that the angle of the plies affects the natural frequencies less as number of plies increase A sensitivity analysis was done investigating the effects of periodic beam parameters on stopbands using the in house MATLAB code and a laminated fiber reinforced composite material Using formulas for effective stiffnesses for symmetric laminated composites a beam element was defined The element was seen to have agreeance with analytical solutions within 2 75% for the first five bending modes Number of plies NP periodic segment ratio PSR periodic ply angle PPA and number of cells NC were swept to show how each affects the location and width of the stopbands Experimental modal testing was conducted to verify the presence of the stop bands utilizing periodic fiber reinforced composite patches An aluminum beam was outfitted with carbon fiber reinforced composite patches and compared to numerical results With the use of an accelerometer shaker and clamp system a cantilever support was created and bending modes of vibration were plotted A trend that resembles the computational results was seen and a stop band was found in a similar frequency range as in the computational results Structural Dynamics and Probabilistic Analysis for Engineers Giora Maymon, 2008-07-01 Probabilistic structural dynamics offers unparalleled tools for analyzing uncertainties in structural design Once avoided because it is mathematically rigorous this technique has recently remerged with the aide of computer software Written by an author educator with 40 years of experience in structural design this user friendly manual integrates theories formulas and mathematical models to produce a guide that will allow professionals to quickly grasp concepts and start solving problems In this book the author uses simple examples that provide templates for creating of more robust case studies later in the book Problems are presented in an easy to understand form Practical guide to software programs to solve design problems Packed with examples and case studies of actual projects Classical and the new stochastic factors of safety

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