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December 23rd, 2019 - The purpose of the article is to analyze the static and dynamic stability of an asymmetric sandwich beam with viscoelastic core lying on a variable Pasternak foundation under the action of a pulsating axial load subjected to one dimensional thermal gradient under three different boundary conditions by the computational method'

'***Transient analysis of delaminated smart composite***
January 29th, 2006 - The transient response of delaminated smart composite laminates is studied using an improved layerwise laminate theory The theory is capable of capturing interlaminar shear stresses that are critical to delamination The Fermi?Dirac distribution function is combined with an improved layerwise'

'**Forced vibration of delaminated Timoshenko beams under the**
November 18th, 2019 - M H Kargarnovin et al Forced vibration of delaminated Timoshenko beams under the moving oscillatory mass 81 vibration of a continuum with a moving oscillator In there the ?exibility in the boundarieswas modeled by linear and transverse springs The dynamic response of an elastically supported in?nite beam to an oscillatory mass with''**On the computation of moving mass beam SpringerLink**
November 16th, 2019 - Kargarnovin MH Ahmadian MT Talookolaei RAJ 2012 Dynamics of a delaminated Timoshenko beam subjected to a moving oscillatory mass Mech Based Des Struct Mach Int J 40 218?240 CrossRef Google Scholar''**Dynamic Response of a Nonuniform Timoshenko Beam with**
July 21st, 2019 - This paper is concerned with the dynamic response of a nonuniform Timoshenko beam with elastic supports subjected to a moving spring mass system The modal orthogonality of nonuniform Timoshenko beams and the corresponding overall matrix of undetermined coefficients are derived'

'**Center of Excellence in Design Robotics and Automation**
December 8th, 2019 - Dynamics of a Delaminated Timoshenko Beam Subjected to a Moving Oscillatory Mass MECHANICS OF STRUCTURES AND MACHINES 40 218 240 2012 17 M H Kahrobaiyan M Rahaeifard S A Tajalli M T Ahmadian A strain gradient functionally graded Euler?Bernoulli beam formulation International Journal of Engineering Science 52 2012 65?76''**Vibration Analysis of Postbuckled Timoshenko Beams Using a**
November 25th, 2019 - Free Vibration of Timoshenko Beam With Finite Mass Rigid Tip Load and Flexural?Torsional Coupling ? A Theoretical and Experimental Study of Nonlinear Dynamics of Buckled Beams ? Ph D thesis Virginia Polytechnic Institute and State University Non Linear Modal Analysis for Beams Subjected to Axial Loads'

'**Finite element modeling of composite plates with internal**
June 30th, 2019 - by offsetting beam ?nite elements Rikards 28 developed a model of ?nite superelements for sandwich composite beam and plate without delamination each layer being considered as a simple Timoshenko beam Later Gadelrab 8 discussed the modal varia tion of delaminated beam under different boundary conditions'
'**Detecting the delamination location of a beam with a**
December 22nd, 2010 - In this research two delaminated cantilever beams with different dimensions and materials subjected to a static displacement at their free ends are investigated experimentally The static profiles of the delaminated beams acquired by a high precision laser profile sensor are analyzed with the Gabor wavelet to identify the delamination location'

'**Dynamics of a Delaminated Timoshenko Beam Subjected to a**
November 17th, 2011 - This paper presents dynamic response of a delaminated composite beam under the action of moving oscillatory mass The Poisson s effect shear deformation and rotary inertia have been considered in this analysis We have used the constrained mode model to simulate the behavior between the delaminated''**Instability and resonance analysis of a beam subjected to**
November 19th, 2019 - Rao V G Linear dynamics of an elastic beam under moving loads Journal of Vibration and Acoustics Vol 122 Issue 3 Jafari Talookolaei R A Dynamics of a delaminated Timoshenko beam subjected to a moving oscillatory mass Mechanics Based Design of Structures and Machines Vol 40 Issue 2 2012 p 218 240''**Coupled flexural?longitudinal vibration of delaminated**
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November 25th, 2019 - Moammad Taghi Ahmadian Professor School of Mechanical Engineering Sharif University of Technology Email ahmadian at sharif edu Phone 98 21 66165503''**1 sharif ir**
December 21st, 2019 - M H Kargarnovin M T Ahmadian R Jafari Talookolaei ? Dynamics of a Delaminated Timoshenko Beam Subjected to a Moving Oscillatory Mass? Mechanics Based Design of Structures and Machines 2012 38''***Energy Release Rates for an Edge Delamination of a***
December 16th, 2019 - Energy Release Rates for an Edge Delamination of a Laminated Beam Subjected to Thermal Gradient M Toya M Toya which show that the theory agrees well with numerical results when temperature jump across the delaminated surfaces is relatively small as compared with the temperature difference between the top and bottom Timoshenko S P'
'***Free vibration analysis of delaminated beams***
November 23rd, 2019 - Euler Bernoulli beam theory is adopted for the study of beams with step axial force and cross section beams subjected to axial force static end moments beams supported by elastic foundation and beams with edge cracks while Timoshenko beam theory is adopted to study the vibration of delaminated rotating beams and Kirchhoff Love hypothesis is'

'**Free vibration of delaminated composite sandwich beams**
July 27th, 2019 - On the dynamic response of a delaminated composite beam under the motion of an oscillating mass Journal of Composite Materials Vol 46 No 22 Dynamics of a Delaminated Timoshenko Beam Subjected to a Moving Oscillatory Mass'

'**maryam abedi Google Scholar Citations**
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'***LARGE AMPLITUDE VIBRATIONS OF TIMOSHENKO BEAMS WITH***
December 18th, 2019 - In all of the above mentioned papers the beam vibrations were modelled by using the small deflection beam theory In order to take into account the longitudinal deflections in the delaminated parts of the beam in the previous studies 2 4 6 and 7 these parts of the beam were assumed to be subjected to artificially introduced axial force'
'**downloads hindawi com**
November 7th, 2019 - SV Shock and Vibration 1875 9203 1070 9622 Hindawi 10 1155 2018 2149251 2149251 Research Article An Analytical Study on Dynamic Response of Multiple Simply Supported''**Vibration analysis of delaminated Timoshenko beams under**
November 28th, 2019 - Highlights The Poisson s effect is considered in the dynamics of delaminated Timoshenko beam The effects of delamination parameters on the beam s dynamic response are studied The response is sensitive to the delamination s depth length and spanwise location The results have potential applications to non destructive testing of''**Geometrically Nonlinear Free Vibration of Composite**
December 19th, 2019 - The problem of geometrically nonlinear free vibration of a clamped clamped functionally graded beam containing an open edge crack in its center is studied in this paper The study is based on Euler Bernoulli beam theory and Von Karman geometric nonlinearity assumptions The cracked section is modeled by an elastic spring connecting two intact'

'**The Scientific World Journal Hindawi**
August 11th, 2013 - The Scientific World Journal is a peer reviewed Open Access journal that publishes original research reviews and clinical studies covering a wide range of subjects in science technology and medicine The journal is divided into 81 subject areas'

'**LARGE AMPLITUDE VIBRATIONS OF TIMOSHENKO BEAMS WITH**
December 26th, 2019 - A model of the dynamic response of a composite Timoshenko beam which takes into In order to consider the longitudinal displacements in delaminated beam it could be considered to consist of two parallel beams 2 and 3 of the beam are assumed to be subjected in 2 4'
'**Delamination detection in composite laminates**
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November 21st, 2015 - Beam is made of an isotropic homogeneous linearly elastic material Uncertainties of material properties are not considered The beam is a uniform slender Euler Bernoulli beam which implies shear deformation is neglected The beam contains a single double edge open crack with depth ? that is located along the beam at L''***Forced Vibration of Delaminated Timoshenko Beams Subjected***
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May 14th, 2013 - This work presents a method to find the exact solutions for the free vibration analysis of a delaminated beam based on the Timoshenko type with different boundary conditions The solutions are obtained by the method of Lagrange multipliers in which the free vibration problem is posed as a constrained variational problem'

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'**Vibration Analysis of Functionally Graded Timoshenko Beams**
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October 26th, 2019 - A closed form solution is presented in this paper to study the dynamics of a composite beam with a single delamination under the action of a moving constant force The delaminated beam is divided into four interconnected beams using the delamination limits as their boundaries'

'***??? ???? ????? ?????? ? ????????? ??? 2012***
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December 3rd, 2019 - Dynamics of a composite Timoshenko beam with delamination The beam was subjected to a short pulse by the modal hammer and then the applied force and the acceleration of the response were recorded An additional damping due to the friction between delaminated parts of the beam is also introduced in the model''***Dynamics of a micro scale Timoshenko beam subjected to a***
August 24th, 2019 - Dynamics of a micro scale Timoshenko beam subjected to a moving micro particle based on Dynamics of a micro scale Timoshenko beam subjected to a moving micro particle based on the Jafari Talookolaei RA 2013 Analytical solution for the dynamic analysis of a delaminated composite beam traversed by a moving constant force''**A dynamic stiffness element for free vibration analysis of**
December 17th, 2019 - A dynamic stiffness element for flexural vibration analysis of delaminated multilayer beams is developed and subsequently used to investigate the natural frequencies and modes of two layer beam configurations Using the Euler Bernoulli bending beam theory'

'***Wave Propagation Analysis of Edge PubMed Central PMC***
February 2nd, 2017 - Consider a beam of length L diameter D containing an edge crack of depth a located at a distance from the left end as shown in Fig 1 One of the supports of the beam is assumed to be fixed and the other free The beam is subjected to an impact force in the transverse direction as seen from Fig 1'
'***The Effects of Shear on Mode II Delamination Frattura ed***
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moving beam under axial load is established based on the Timoshenko beam theory and Hamilton s principle The beam system is sorted by the positive''**Dynamic Analysis of a Timoshenko Beam Subjected to Moving**
November 30th, 2005 - This paper presents finite element formulations for an elastic Timoshenko beam subjected to moving concentrated forces The results obtained by the present method are compared with those obtained by the assumed mode method published in the existing literature to verify the correctness of the present method The present method can analyze the'
'**Multiscale studies on the nonlinear vibration of**
July 1st, 2017 - They modeled a beam with one through width delamination by simply using four Timoshenko beams connected at delamination edges Wang et al 18 improved the analytical solution by including the coupling between flexural and axial vibrations of the delaminated beams which were modeled as split regions'

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December 23rd, 2019 - In this paper free vibration analysis of cracked composite beams subjected to coupled bending torsion loads are presented The composite beam is assumed to have an open edge crack A first order theory is applied to count for the effect of the shear deformations on natural frequencies as well as the effect of coupling in torsion and bending''**Vibration Analysis of Cracked Composite Laminated Plate**
November 22nd, 2019 - The composite structures usually experiences vibration during service Presence of delamination in a structure not only significantly impacts the stiffness of the structure with declining trends but also affect their vibration properties The purpose of this paper is to review the literature studies on the effect of vibration on composite''***Dynamic Analysis of Elastically Supported Cracked Beam***
June 2nd, 2015 - For dynamic analysis the equations of motion in matrix form for a cracked beam subjected to a moving load with constant velocity have been formulated using Hamilton s principle and the assumed mode method by Lee and Ng 1994 In this study the beam has modeled as two separate beams divided by the crack''**Analytical Solution for the Free Vibration Analysis of**
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November 22nd, 2019 - A new method of modeling partial delamination in composite beams is proposed and implemented using the finite element method Homogenized cross sectional stiffness of the delaminated beam is obtained by the proposed analytical technique including extension bending extension twist and torsion bending coupling terms and hence can be used with'
'**Free vibrations of delaminated beams AIAA Journal**
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