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Free Vibrational Analysis of Cracked and Un-cracked Cantilever Beam

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Abstract: Early direction of dismage is of special concern for engineering structures. A comparatively recent development for the diagnosis of structural cruck location and size by using the finite element method and hazey logics bethingors has superved. The traditional methods of damage detection include visual inspection or instrumental evaluation. A method based on mensurement of natural frequencies is presented for detection of the location and size of a cruck in a contineer beam. Similarity of natural programming in MATLAF is send for solving the Euler equation for an exact beam to solution for the reach and programming of different modes of wheaton constaining the Euler equation for an exact beam to solution for these natural frequencies of different modes of wheaton constaining houndary conditions for the beam.

boundary conditions for the boam.

Here in this ANSTS software package is used for finite atomical analysis of both crack and un-crack contribute boam taking input. File on a CAO design developed in CATIA. Experiments a done for total B models of crack boam having different cross section, crack lineaties and crack depth and at moverate neutral Propulsor for B models of cracks board Apart of Models intendenced is curve fitting tendine and Flazy logic controller. The traver fitting tendines and Flazy logic controller. The traver fitting tendines and Flazy logic controller. The traver fitting tendines intendenced for crack identification by using simple curve. The Flazy controller for controller. The same fitting tendines intendenced and convenient of three lapset versibles [FFF, SFF, and TSF], and two outquit variables [RCD and RCL] are generated with Triangular MF. Flazy analysis is those based on some set of free lapset versibles [FFF, SFF, and TSF], and two outquit variables [RCD and RCL] are generated with Triangular MF. Flazy analysis in these based on some set of free flazy and the set of t

Key Words: Cantilever beam, Free vibration, frequency, Crack, ANSYS

LINTRODUCTION

With the discovery of musical instruments, people stared taking interest in vitration, Since then, people have applied investigation and theories to study the vibration phenomenon. Sir faililios is considered to be the founder of vibration phenomenon. He has performed his experiments when the properties of the people of th

of consurch is made by Morranne (Wheating intrag). Newton Claws of motion. Taylor (Taylor series for vibration analysis). Alembert (Taylor series for vibration analysis). Alembert (Principles of equilibrium). Eather (Elear's beam theory), Fourier (sine wave nadivu), Rayloigh (Inequency measurement) and Lagrange's method of shration analysis. Since then the vibration has covered a brief bistory from Sr Galilein's work to modern vibration researches.

Any motion which expests itself after a certain increval of time in called vibration. The whency of vibration deals with study of outfallatory motions of bodies and the forces associated with them, A vibration can issued due to external includes static momber for storing propertial energy, a muon or institu member for storing insente energy and fample by which gradual loss of energy takes plain. A simple pendulum as shown in fig. 1.1 is an example of vibration expression, pring mism system, withcele snapsunion system, simply supported and cantilever beaus, inserval without gentral cantilever beaus, inserval without gentral particular distributed on the shadiner reciprocating or restating form; etc. are the examples of vibration system. Wibration with certain smplitude and frequency may be visitable but exceptive vibrations causes

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 Increases bearing clearances.
 Reduces the working life of components.
 Effect on financial growth.



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