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A dynamic analysis of rotating functionally gradient (FG) beams is presented for capturing the steady bending deformation by

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using a novel floating frame reference (FFR) formulation. Usually, the cross section of bending beams should rotate round the point at the neutral axis while centrifugal inertial forces are supposed to act on centroid axis.

Dynamic modeling and analysis of rotating FG beams for

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Control & Estimation ... quency Response Analysis, Report 7504," Lund Institute of Technol- ogy while the head box example in Chapter 4 is described in his report

Prentice

System dynamics is a methodology and mathematical modeling technique to frame, understand, and discuss complex issues and problems. Originally developed in the 1950s to help corporate managers improve their understanding of industrial processes, SD is currently being used throughout the public and private sector for policy analysis and design.

System dynamics - Wikipedia

This textbook offers an accessible yet technically-oriented introduction to the modeling and analysis of complex systems. The topics covered include: fundamentals of modeling, basics of dynamical systems, discrete-time models, continuous-time

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models, bifurcations, chaos, cellular automata, continuous field models, static networks, dynamic networks, and agent-based models.

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system reliability theory, and provides a detailed investigation of dynamic and dependent behaviors in subsequent chapters.

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Modeling and Analysis of Dynamic Systems - 3rd Edition

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In the construction of the dynamic model, vibration displacements are used and the centrifugal force of the carrier is ignored, so it cannot be used under variable and high speed conditions. Wei et al. proposed a comprehensive, fully coupled dynamic model of planetary gears with a flexible shaft, ring gear, and carrier by virtual beam elements. However, this model

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ignores the centrifugal forces of the planets and carrier, and it is also difficult to use for planetary gears with a complex ...

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