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Dynamic behavior of nematic liquid crystal mixtures with ...

Abstract. A numerical study is conducted to investigate the dynamic behavior of earth dams. The numerical investigation employs a fully nonlinear dynamic finite difference analysis incorporating a simple elastic perfectly plastic constitutive model to describe the stress-strain response of the soil and the Rayleigh damping to increase the level of hysteretic damping.

Dynamic program analysis - Wikipedia

International Journal of Fuzzy Logic and Intelligent Systems. 11, 143-148. ... Chaotic phenomena in addiction model for digital leisure. International Journal of Fuzzy Logic and Intelligent Systems. 13, 291-297. Bae, YC (2014). Chaotic dynamics ... (2015). Behavior analysis of dynamic love model with time delay. Journal of the Korea Institute ...

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Dynamic behavior analysis of ion transport through a ...

Dynamic analysis, also known as dynamic program analysis, is the evaluation of a program or technology using real-time data. This method of analysis can be done on a virtual processor or on a real processor. Instead of taking code offline, vulnerabilities and program behavior can be monitored while the program is running, providing visibility into its real-world behavior.

CiNii 論文 - Dynamic Behavior Analysis of Crystal with ...

Chapter 6 Dynamic Mechanical Analysis 6.1 Introduction The transport behavior of two series of penetrants, namely esters and alkanes in a polymeric adhesive, has been investigated by means of mass uptake and infrared experiments. Basic structure-property relationships between the molecular structure and chemical nature of a penetrant were derived.

Numerical analysis of the dynamic behavior of a rotor ...

Dynamic behavior analysis of ion transport through a bilayer lipid membrane by an electrochemical method combined with fluorometry† Terumasa Omatsu , a Kisho Hori , a Yasuhiro Naka , a Megumi Shimazaki , a Kazushige Sakai , a Koji Murakami , a Kohji Maeda , a Mao Fukuyama bc and Yumi Yoshida * a

Chapter 6 Dynamic Mechanical Analysis

Dynamic Behavior Analysis of a Rotating Smooth and Discontinuous Oscillator with Irrational Nonlinearity Ning Han¹ & Mingjuan Liu² ¹ Key Lab. of Machine Learning and Computational Intelligence, College of Mathematics and Information Science, Hebei University, Baoding, China ² Medical College, Hebei University, Baoding, China

Dynamic Behavior of Molecular Switches in Crystal under ...

Profiles international developments in the study of dynamic behavior of materials. Covers the

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science and engineering of material and structural response to dynamic loading focused on high strain-rate, impact, blast, penetration, shock response, and extreme conditions.

Dynamic Analysis - WhiteHat Security Glossary

Molecular switches have attracted increasing interest in the past decades, due to their broad applications in data storage, optical gating, smart windows, and so on. However, up till now, most of the molecular switches are operated in solutions or polymer blends with the stimuli of light, heat, and electric fields. Herein, we demonstrate the first pressure-controllable molecular switch of a ...

LIQUID A PART II : DYNAMICS

We applied QCM (quartz crystal microbalance) as a complementary tool for optical analysis, in particular for impact dynamic studies coupled with a high-speed camera. This technique can be used to investigate in-situ changes of the surface state (i.e. , adsorption mass and surface stress) by using quantitative values, including the resonance frequency and dissipation factor.

Developing a non-optical platform for impact dynamics ...

The dynamic behavior has been analyzed around the first critical speed range. Fig. 22 shows the orbits at the speed range from 136 to 151 rad/s for the case with no unbalance. The observation has been focused on the magnitude, whirl direction and phase of the orbit.

Dynamic behavior of a nematic liquid crystal with added ...

Read "ChemInform Abstract: Synthesis, Crystal Structure, Dynamic Behavior and Reactivity of Dinaphtho(2,1-b:1',2'-d)phospholes and Related Atropisomeric Phosphacyclic Derivatives., ChemInform" on DeepDyve, the largest online rental service for scholarly research with thousands of academic publications available at your fingertips.

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Light-melt adhesive based on dynamic carbon frameworks in ...

Dynamic Behavior Analysis of Crystal with Magnetic Anisotropy under Imposition of Rotating Magnetic Field Iwai Kazuhiko Jpn J Appl Phys 49(12), 125602-125602-4, 2010-12-25

Chaotic Behavior in a Dynamic Love Model with Different ...

To minimize leakage and maintain the efficiency of turbomachinery, brush seal can be installed with zero clearance or interference as the flexibility. This leads to contact between the rotor and bristle pack, and may cause self-excited vibration, even instability. In this study, to establishment a mathematical model of the rotor system, a seal force model with bristle interference is proposed ...

Dynamic behavior analysis of cracked rotor - ScienceDirect

Dynamic program analysis is the analysis of computer software that is performed by executing programs on a real or virtual processor. For dynamic program analysis to be effective, the target program must be executed with sufficient test inputs to cover almost all possible outputs.

Dynamic Behavior Analysis of a Rotating Smooth and ...

233 Dynamic behavior of a nematic liquid crystal with added carbon nanotubes in an electric field Emil Petrescu and Cristina Cirtoaje* Full Research Paper Open Access Address:

ChemInform Abstract: Synthesis, Crystal Structure, Dynamic ...

35 STATIC AND DYNAMIC BEHAVIOR OF A NEMATIC LIQUID CRYSTAL IN A MAGNETIC FIELD PART II : DYNAMICS P. PIERANSKI, F. BROCHARD and E. GUYON Laboratoire de Physique des Solides, Université Paris-Sud ...

Dynamic Behavior Analysis Of Crystal

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The dynamic behavior of a nematic liquid crystal with added carbon nanotubes (CNTs) in an electric field was analyzed. A theoretical model based on elastic continuum theory was developed and the relaxation times of nematic liquid crystals with CNTs were evaluated.

Dynamic behavior of a nematic liquid crystal with added ...

Dynamic behavior of nematic liquid crystal mixtures with quantum dots in electric fields The dynamic behavior of a mixture consisting of liquid crystalline 4-cyano-4'-pentylbiphenyl (5CB) and CdSe/ZnS quantum dots in electric fields was theoretically studied.

Numerical analysis of nonlinear dynamic behavior of earth ...

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