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Solid Mechanics and Design, Finite Element Method, Plates and Shells, Structural Dynamics and Stability, Nonlinear Mechanics, Composite Structures, Nonlocal Theories of Elasticity Dr. G. Rajasekaran Machine Design, Mechanics of Nano-materials, Molecular Dynamics, Atomistic Modeling of Nano-materials, Nano-Composite Materials and Vibration control

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Course Duration Timeline URL; Earth
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S,Dr.A.Rengarajan,M.Rajeshkhanna and
S.Rajasekaran Published ... Worked as
laboratory In charge of Fluid Mechanics
& Engineering Mechanics; Worked as a
project guide of UG students of Civil
Engg. Worked as Departmental
Academic In charge. Worked as
committee member for RTMNU Theory
exam Winter-2014 & Summer-2015.

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Clay is a very important material in
geotechnical engineering, because it is
often observed in geotechnical
engineering practice. Generally, this soil
type has numerous problems due to its

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low strength, high compressibility and high level of volumetric changes. Clay needs to be improved before it can be used in road construction, dams, slurry walls, airports and waste landfills.

The Importance of Clay in Geotechnical Engineering ...

S. Rajasekaran, in Structural Dynamics of Earthquake Engineering, 2009 13.11 Forced axial vibration of bars Consider a bar as shown in Fig. 13.14 which is fixed at one end and free at the other end to which an exciting force $P(t)$ is applied.

Simply Supported Beam - an overview | ScienceDirect Topics

ABOUT. All India Council for Technical Education (AICTE) the statutory body and a national-level council for technical education, under Department of Higher Education, Ministry of Human Resource Development and NPTEL have signed an MOU on July 24, 2018 whereby advanced NPTEL online certification courses are approved for Faculty Development

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Programme (FDP) by AICTE.

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Please congratulate our Science Bowl team—Yuchen Li, Rohan Iyer, Evan Kim, Saketh Dhulipalla, and Sami Badal Khan—for their 4th place finish in the MIT Science Bowl! This competition was held virtually—it was a long day of Zoom that began at 5:30am local time. The competition was deliberately difficult and featured 40 of the best teams in the country.

Activities - Tesla STEM High

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The Engine model is quite simplistic. The input (current engine speed) is filtered and saturated to a minimum and

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maximum values. The role of the filter is to simulate the mechanical inertia of the engine. The saturation block makes sure that the engine speed doesn't go below idle speed (1000 rpm) and does not exceed the maximum value (6500 rpm).

Vehicle acceleration and maximum ... - Engineering Tutorials

Due to the COVID-19 virus, Richland County Government is closed to the public; limiting services to ensure the safety of our citizens and personnel. Contractors, engineers, surveyors, and other design professionals should apply for submittals and schedule inspections using your online eTrakit account.

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Speaker Overview

Temporomandibular disorders (TMDs) may affect up to 25% of the population, with almost 70% of these TMD cases developing malpositioning of the disc over time in what is known as internal derangement (ID). Despite significant efforts, the molecular mechanism underlying disease progression is not yet very well known. In this study, the role of COL12A1 rs970547 and rs240736 polymorphisms as ...

Genes | Free Full-Text | COL12A1 Single Nucleotide ...

Toughening alpha-Ti by dislocation-induced phase transformation at crack tips, H Zhang and XQ Ou and S Ni and M Song, MECHANICS OF MATERIALS, 151, 103629 (2020). (DOI: 10.1016/j.mechmat.2020.103629)

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abstract

LAMMPS Publications - LAMMPS Molecular Dynamics Simulator

Screening combinatorial space for novel materials, such as perovskite-like ones for photovoltaics, has resulted in a high amount of simulated high-throughput data and analysis thereof. This study proposes a comprehensive comparison of structural fingerprint-based machine learning models on seven open-source databases of perovskite-like materials to predict band gaps and energies. It shows that ...

Global Property Prediction: A Benchmark Study on Open ...

Feature engineering, including feature extraction, feature selection, feature construction and feature learning, is the process of using domain knowledge regarding the data to create features that allow machine learning algorithms to function. ... S. Rajasekaran, R. Ramprasad. Accelerating materials

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