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Microplane Constitutive Model for Porous Isotropic Rocks

This course covers the basic principles of constitutive modeling for soils and ... non-associativity and strain-hardening models; elastoplastic models for granular materials; models for cemented soils ...

CIV_ENV 454-0: Constitutive Models for Soils

Research Interests Dr Issen's research interests fall within the field of solid mechanics, and materials and include: 1) Constitutive modeling of natural and manufactured heterogeneous and/or ...

Kathleen A. Issen

This area encompasses structural engineering, advanced composite materials and geomechanics ... combining laboratory testing, constitutive modelling, physical modelling, field observation and ...

Civil Engineering

Harm's research interests are concerned with modelling the behaviour of engineering structures and materials. He develops simulation tools to emulate this behaviour, allowing predictions that would be ...

Professor Harm Askes

His work covers several topics in engineering mechanics and engineering materials, such as the mechanical properties of concrete, soils, composites and rubbers, in particular the development of ...

Department of Civil and Structural Engineering

Kang, Hyeonbae Lee, Hyeundae and Yun, KiHyun 2015. Optimal estimates and asymptotics for the stress concentration between closely located stiff inclusions ...

Introduction to the Network Approximation Method for Materials Modeling

Bernabé, Yves Fryer, D. T. and Hayes, J. A. 1992. The effect of cement on the strength of granular rocks. Geophysical Research Letters, Vol. 19, Issue. 14, p. 1511.

Soil Behaviour and Critical State Soil Mechanics

Description: This test method covers the determination of the comparative tensile properties of the adhesive bonds of metal to metal when tested on standard shape specimens and under defined ...

ASTM E289 Properties

This text focuses on advanced methods for predicting and avoiding the occurrence of defects in manufactured products. It covers the major manufacturing operations, and considers conventional and new ...

Chapter 19: Numerical Simulation of Ductile Damage in Metal Forming Processes: A Simple Predictive Model, Part 2: Some Applications

Hours after stimulation, MCs also de novo synthesize an array of cytokines and chemokines mediated by NF- κ B transcription factors (23), and these cytokines and chemokines are secreted through ...

ELKS1 controls mast cell degranulation by regulating the transcription of *Slx2p2* and *Syntaxin 4* via *Kdm2b* stabilization

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Staphylococci: Colonizers and Pathogens of Human Skin

Trans-inhibition acted upon the Fc γ RI-dependent activation of mouse mast cells, mouse basophils, and human basophils, and upon growth factor receptor (Kit) γ dependent normal mouse mast cell ...

Trans-inhibition of activation and proliferation signals by Fc receptors in mast cells and basophils

A more granular examination of the STK array outcomes highlights that MLL-AF9, FLT3-ITD and MV4;11 cells treated with quizartinib have increased phosphorylation of IRAK1/4-specific peptides (Fig. 2A).

Overcoming adaptive therapy resistance in AML by targeting immune response pathways

We know so much about canine behavioral changes that occur with age because dogs are good neuroanatomical and neurobehavioral models for humans ... has been associated with expression of the ...

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