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The Strain Rate Tensor (or Rate Of Deformation Tensor) Is The Time Derivative Of The Strain Tensor. $\dot{\gamma}_{ij} \equiv D\gamma_{ij}/dt$ (1-38) The Components Of The Local Velocity Vector Are $V_i = Du_i/dt$ (1-39). Since The Coordinates X_i And Time T Are Independent Variables, We Can Switch T 1th, 2024

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A Second-order Tensor Is One That Has Two Basis Vectors Standing Next To Each Other, And They Satisfy The Same Rules As Those Of A Vector (hence, Mathematically, Tensors Are Also Called Vectors). A Second-order Tensor And Its Transpose. Can Be Expressed In Terms Of Rectangular Cartesian Base Vectors As. Second-order Identity Tensor has The Form 3th, 2024

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Theory 24 Chapter 2. Multilinear Algebra 27 §2.1. Rust Removal Exercises 28 §2.2.
Groups And Representations 30 §2.3. Tensor Products 32 §2.4. The Rank And Border
Rank Of A Tensor 35 ... 1th, 2024

Introduction To Tensors And Indicial Notation

(a 2×3 2nd Order Tensor) And The first Dimension Of B (a 3×2 2nd Order Tensor)

Must Match. Finally, The Resulting Tensor D , Will Be A 2×2 2nd Order, Because The Index J Cancels Out And We Are Left With Two Unique Indices (i And K), Each With A Dimension Of 2. The Indices I And K Can Be Of Arbitrary Size. 1th, 2024

1.6 Relations Between Stress And Rate-of-strain Tensors

Lecture Notes On Fluid Dynamics (1.63J/2.21J) By Chiang C. Mei, MIT February 6, 2007 1-6stresstrain.tex, 1.6 Relations Between Stress And Rate-of-strain Tensors When The fluid Is At Rest On A Macroscopic Scale, No Tangential Stress Acts On A Surface. There Is Only The Normal Stress, I.e., The Pressure $-\rho \delta_{ij}$ Which Is Thermodynamic In Origin ... 1th, 2024

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\mathbf{n} . The Symbol \mathbf{n} Represents The Unit Normal (vector) To The Area Element, And \mathbf{T} Is The Stress Vector Acting On That Element. The Second-order Tensor \mathbf{T} Completely Describes The State Of Stress At A Point. By Convention, \mathbf{T} Is The Stress Exerted By The Fluid Into Which \mathbf{n} Points On The Fluid Adjoining It. Just As A Vector Has One Invariant (its Length), A Tensor Has Three In 3th, 2024

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Exercise 1: Tensors And Invariants Tensor/Index Notation

Example: Kinetic Energy Per Unit Volume $\frac{1}{2} \rho \mathbf{u} \cdot \mathbf{u} = \frac{1}{2} \rho u_i u_i$

Matrix/Tensor Operations $(\mathbf{A} \mathbf{B}) = A_{11} b_1 + A_{22} b_2 + A_{33} b_3 = A_{ij} b_j = A_{ij} b_j = A_{ij} b_j$
(scalar, Inner Product) $(\mathbf{A} \mathbf{B})_{ij} = (\mathbf{A} \mathbf{B})_{ij} = A_{ik} b_{kj}$ (diadic, Tensor Product) $(\mathbf{A} \mathbf{B})_{ij} = A_{ik} b_{kj}$ (matrix-vector Multip 2th, 2024)

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