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The Strain Rate Tensor (or Rate Of Deformation Tensor) Is The Time Deriva-tive Of

The Strain Tensor.  $\gamma'_{ij} \equiv D\gamma_{ij}/dt$  (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 Tensorhas The Form 3th, 2024

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(a  $2 \times 3$  2nd Order Tensor) And The first Dimension Of B (a  $3 \times 2$  2nd Order Tensor) Must Match. Finally, The Resulting Tensor D, Will Be A  $2 \times 2$  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

## **Vectors And Tensors**

$\mathbf{T} \cdot \mathbf{n}$ . 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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Example: Kinetic Energy Per Unit Volume  $\frac{1}{2} \rho \mathbf{u} \cdot \mathbf{u} = \frac{1}{2} \rho (u_1^2 + u_2^2 + u_3^2) = \frac{1}{2} \rho \mathbf{u} \cdot \mathbf{u}$   
 Matrix/Tensor Operations  $(\mathbf{A} \cdot \mathbf{B})_{ij} = A_{1i} B_{1j} + A_{2i} B_{2j} + A_{3i} B_{3j} = A_{li} B_{lj} = A_{li} B_{lj}$   
 (scalar, Inner Product)  $(\mathbf{A} \cdot \mathbf{B})_{ij} = (\mathbf{A} \cdot \mathbf{B})_{ij} = A_{li} B_{lj}$  (diadic, Tensor Product)  $(\mathbf{A} \cdot \mathbf{B})_{ij} = A_{li} B_{lj}$  (matrix-vector Multip 2th, 2024

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