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Introduction to continuum mechanics. W Michael Lai, Erhard Krempf, David Rubin. New material has been added to this third edition text for a beginning course in continuum mechanics. Additions include anisotropic elastic solids, finite deformation theory, some solutions of classical elasticity problems, objective tensors and objective time derivatives of tensors, constitutive equations for viscoelastic fluids, and equations in cylindrical and spherical coordinates.

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Thus, $\mathbf{n} = \frac{\mathbf{e}_1 + \mathbf{e}_2 + \mathbf{e}_3}{\sqrt{3}}$, so that a unit vector in the direction of the axis of rotation is $\mathbf{n} = \frac{\mathbf{e}_1 + \mathbf{e}_2 + \mathbf{e}_3}{\sqrt{3}}$. Lai et al, Introduction to Continuum Mechanics. Copyright 2010, Elsevier Inc 2-9. 2.29 A rigid body undergoes a right hand rotation of angle θ about an axis which is in the direction of the unit vector \mathbf{n} .

CHAPTER 2, PART A

W. Michael Lai is Professor Emeritus of Mechanical Engineering and Orthopaedic Bioengineering at Columbia University. He received his Ph.D in Engineering Mechanics in 1962 from the University of Michigan.

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