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J.L. Ericksen,  
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Solids, Chapman and  
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Continuum Mechanics,  
Academic Press, 1981.

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detailed presentation of the coordinate invariant quantity, the tensor, introduced as a linear transformation. This is then followed by the formulation of the kinematics of deformation, large as well as very small, the description of stresses and the basic laws of continuum mechanics.

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Geometrical meaning  
of the scalar (or dot)  
product  $ab = |a||b|\cos\theta$   
(1) where  $\theta$  is the angle  
between the tips of  $a$   
and  $b$ , whereas  $a \cdot b = |a||b|\cos\theta$

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$ab$  represent the length of  $a$  and  $b$ . Vectors  $a$  and  $b$  are orthogonal (or perpendicular to each other) if their scalar product is zero, i.e.  $a \cdot b = 0$ .

### **An Introduction To Continuum Mechanics Pdf.pdf - Free Download**

An Introduction to Continuum Mechanics, Second Edition This best-selling textbook presents the concepts

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of continuum mechanics in a simple yet rigorous manner. The book introduces the invariant form as well as the component form of the basic equations and their applications to problems in elasticity, fluid mechanics,

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inequality for a  
continuum. The main  
portion of the book  
involves models of  
material behavior and  
presents complete  
formulations of various  
general continuum  
models.