

CHAPTER 2, PART A

2.1 Given

$$[S_{ij}] = \begin{bmatrix} 1 & 0 & 2 \\ 0 & 1 & 2 \\ 3 & 0 & 3 \end{bmatrix} \text{ and } [a_i] = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$$

Evaluate (a) S_{ii} , (b) $S_{ij}S_{ij}$, (c) $S_{ji}S_{ji}$, (d) $S_{jk}S_{kj}$, (e) $a_m a_m$, (f) $S_{mm}a_m a_m$, (g) $S_{mm}a_m a_m$.

Ans. (a) $S_{ii} = S_{11} + S_{22} + S_{33} = 1 + 1 + 3 = 5$.

(b) $S_{ij}S_{ij} = S_{11}^2 + S_{12}^2 + S_{13}^2 + S_{21}^2 + S_{22}^2 + S_{23}^2 + S_{31}^2 + S_{32}^2 + S_{33}^2 =$
 $1 + 0 + 4 + 0 + 1 + 4 + 9 + 0 + 9 = 28$.

(c) $S_{ji}S_{ji} = S_{ij}S_{ij} = 28$.

(d) $S_{jk}S_{kj} = S_{1k}S_{k1} + S_{2k}S_{k2} + S_{3k}S_{k3}$
 $= S_{11}S_{11} + S_{12}S_{21} + S_{13}S_{31} + S_{21}S_{12} + S_{22}S_{22} + S_{23}S_{32} + S_{31}S_{13} + S_{32}S_{23} + S_{33}S_{33}$
 $= (1)(1) + (0)(0) + (2)(3) + (0)(0) + (1)(1) + (2)(0) + (3)(2) + (0)(2) + (3)(3) = 23$.

(e) $a_m a_m = a_1^2 + a_2^2 + a_3^2 = 1 + 4 + 9 = 14$.

(f) $S_{mm}a_m a_m = S_{1m}a_m a_m + S_{2m}a_m a_m + S_{3m}a_m a_m =$
 $S_{11}a_1 a_1 + S_{12}a_1 a_2 + S_{13}a_1 a_3 + S_{21}a_2 a_1 + S_{22}a_2 a_2 + S_{23}a_2 a_3 + S_{31}a_3 a_1 + S_{32}a_3 a_2 + S_{33}a_3 a_3$
 $= (1)(1)(1) + (0)(1)(2) + (2)(1)(3) + (0)(2)(1) + (1)(2)(2) + (2)(2)(3) + (3)(3)(1)$
 $+ (0)(3)(2) + (3)(3)(3) = 1 + 0 + 6 + 0 + 4 + 12 + 9 + 0 + 27 = 59$.

(g) $S_{mm}a_m a_m = S_{mm}a_m a_m = 59$.

2.2 Determine which of these equations have an identical meaning with $a_i = Q_{ij}a'_j$.

(a) $a_p = Q_{pm}a'_m$, (b) $a_p = Q_{qp}a'_q$, (c) $a_m = a'_m Q_{mm}$.

Ans. (a) and (c)

2.3 Given the following matrices

$$[a_i] = \begin{bmatrix} 1 \\ 0 \\ 2 \end{bmatrix}, [B_{ij}] = \begin{bmatrix} 2 & 3 & 0 \\ 0 & 5 & 1 \\ 0 & 2 & 1 \end{bmatrix}$$

Demonstrate the equivalence of the subscripted equations and corresponding matrix equations in the following two problems.

(a) $b_i = B_{ij}a_j$ and $[b] = [B][a]$, (b) $s = B_{ij}a_i a_j$ and $s = [a]^T [B][a]$

Ans. (a)

$b_1 = B_{ij}a_j \rightarrow b_1 = B_{1j}a_j = B_{11}a_1 + B_{12}a_2 + B_{13}a_3 = (2)(1) + (3)(0) + (0)(2) = 2$

$b_2 = B_{2j}a_j = B_{21}a_1 + B_{22}a_2 + B_{23}a_3 = 2, \quad b_3 = B_{3j}a_j = B_{31}a_1 + B_{32}a_2 + B_{33}a_3 = 2$.

Continuum Mechanics Lai Solution Manual

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Solutions Manual -- Continuum Mechanics for Engineers, Third Edition CRC Press, 2009-07-23

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cksenschlag zwischen der Theorie der Kontinuumsmechanik und deren Anwendung bei der Lösung von Berechnungsproblemen mit Finiten Elementen. Dem entspricht auch die Gliederung in zwei Teile. Der Einführung in die zur Formulierung Finiten Elemente notwendigen Grundlagen der Kontinuumsmechanik fester Körper schließen sich Kapitel zur Lösung der Feldprobleme der Kontinuumsmechanik mit Finiten Elementen an. Dabei wird die Herleitung der Finite Elemente Matrizen exemplarisch für das gekoppelte thermomechanische Problem durchgeführt, wobei als Material der hyperelastische und elastoplastische Werkstoff betrachtet wird. Dazu werden die zur Lösung der nichtlinearen Aufgabenstellung verwendeten Lösungsalgorithmen besprochen sowie die Genauigkeit spezieller Elementformulierungen anhand einfacher Testbeispiele demonstriert.

Introduction to Continuum Mechanics for Engineers Nik Abdullah Nik Mohamed, 2023. This textbook provides an overview of the fundamental concepts in continuum mechanics for application in real material behavior analysis. The contents cover basic topics such as Kinematics, the motion of any material point representing a material body using the Lagrangian and Eulerian approaches, stress tensors, stress analysis of material bodies experiencing small deformations, mathematical modeling of material properties in continuum mechanics, balance principles, transfer of specific mechanical properties from a system to its environment or vice versa through the system boundary. The textbook also contains pedagogical elements such as worked examples and end of chapter exercises which are derived from typical engineering problems and the solution manual so that students can solve computational problems by running simulations on Matlab or Python on their own. This benefits engineering students understand the concept of continuum mechanics for future analysis using finite element analysis, boundary element method or any other computational methods.

Scientific and Technical Books in Print, 1972. **Biomechanics of Diarthrodial Joints** Van C. Mow, Anthony Ratcliffe, Savio L-Y. Woo, 2012-12-06. Historical folklore indicates that Asklepios circa 900 BC, the first western doctor of ancient Greece, treated many patients with rheumatic diseases of joints. Later Hippocrates circa 400 BC, who claimed to have learned from Asklepios, used the term arthritis in reference to joint diseases. When the disease of arthritis strikes, acute inflammation and pain attacks the joints of the body. Indeed, arthritic joint disease dates much farther back into antiquity than Asklepios. Many modern anthropologists have noted degenerative joint disease in the fossils of Neanderthal man, *archanthropus europeus petraloniensis*, and even in those of dinosaurs. More recent scientific studies on joints date back to the work of the great English anatomist Hunter, who wrote *The Structure and Diseases of Articular Cartilage* in the *Philosophical Transactions of London* in 1743. The notion that osteoarthritis results from the wearing away of cartilage was copiously documented by the histological observations of the German physician Ecker in 1843. This idea was further supported by Pommer in 1927, who felt that mechanical stresses played important roles in the initiation and propagation of cartilage lesions leading to osteoarthritis. This same conclusion was reached by the assembled distinguished experts at a National Institutes of Health Workshop 3 held in 1986.

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