

16-2. Continued

From the matrix partition, $Q_4 = K_{41}D_1 + K_{42}D_2$.

$$-5(10^3) = (511.25D_1 + 22.5D_2)(10^6) \quad (1)$$

$$-24(10^3) = (511.25D_2 - 22.5D_1)(10^6) \quad (2)$$

$$11(10^3) = (22.5D_1 - 22.5D_2 + 120D_3)(10^6) \quad (3)$$

Solving Eqs. (1) to (3).

$$D_1 = -13.57(10^{-6}) \text{ m} \quad D_2 = -43.15(10^{-6}) \text{ m} \quad D_3 = 86.12(10^{-6}) \text{ rad}$$

Using these results and applying $Q_5 = K_{51}D_1 + K_{52}D_2$,

$$Q_4 = -11.25(10^6)(-13.57)(10^{-6}) + (-22.5)(10^6)(86.12)(10^{-6}) = -1.785 \text{ kN}$$

$$Q_5 = -500(10^6)(-43.15)(10^{-6}) = 21.58 \text{ kN}$$

$$Q_6 = 22.5(10^6)(-13.57)(10^{-6}) + 30(10^6)(86.12)(10^{-6}) = 2.278 \text{ kN} \cdot \text{m}$$

$$Q_7 = -500(10^6)(-13.57)(10^{-6}) = 6.785 \text{ kN}$$

$$Q_8 = -11.25(10^6)(-43.15)(10^{-6}) + 22.5(10^6)(86.12)(10^{-6}) = 2.423 \text{ kN}$$

$$Q_9 = -22.5(10^6)(-43.15)(10^{-6}) + 30(10^6)(86.12)(10^{-6}) = 3.555 \text{ kN} \cdot \text{m}$$

Superposition these results to those of FEM shown in Fig. a.

- 1. $Q_1 = 0$
- 2. $Q_2 = 0$
- 3. $Q_3 = 0$
- 4. $Q_4 = -1.785 \text{ kN}$
- 5. $Q_5 = 21.58 \text{ kN}$
- 6. $Q_6 = 2.278 \text{ kN} \cdot \text{m}$
- 7. $Q_7 = 6.785 \text{ kN}$
- 8. $Q_8 = 2.423 \text{ kN}$
- 9. $Q_9 = 3.555 \text{ kN} \cdot \text{m}$



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Solutions Manual to Accompany Structural Analysis Jack C. McCormac, Rudolf E. Elling, 1988

Structural Analysis, Second Edition, Solutions Manual Alexander Chajes, 1990

Instructor's Solutions Manual [to] Structural Analysis, 5th Ed R. C. Hibbeler, 2006

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Introduction to Structural Analysis Debrabrata Podder, Santanu Chatterjee, 2024-10-04 This book cover principles of structural analysis without any requirement of prior knowledge of structures or equations Starting from the basic principles of equilibrium of forces and moments all other subsequent theories of structural analysis have been discussed logically Divided into two major parts this book discusses basics of mechanics and principles of degrees of freedom upon which the entire paradigm rests followed by analysis of determinate and indeterminate structures Energy method of structural analysis is also included Worked out examples are provided in each chapter to explain the concept and to solve real life structural analysis along with solutions manual

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Solutions Manual for Structural Analysis Jeffrey P. Laible, 1985

Structural Analysis Gianluca Ranzi, Raymond Ian Gilbert, 2014-07-28 Provides Step by Step Instruction Structural Analysis Principles Methods and Modelling outlines the fundamentals involved in analyzing engineering structures and effectively presents the derivations used for analytical and numerical formulations This text explains practical and relevant concepts and lays down the foundation for a solid mathematical background that incorporates MATLAB no prior knowledge of MATLAB is necessary and includes numerous worked examples Effectively Analyze Engineering Structures Divided into four parts the text focuses on the analysis of statically determinate structures It evaluates basic concepts and procedures examines the classical methods for the analysis of statically indeterminate structures and explores the stiffness method of analysis that reinforces most computer applications and commercially available structural analysis software In addition it covers advanced topics that include the

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Matrix Structural Analysis (Solution Manual) William McGuire, Richard Hugo Gallagher, 1982 Matrix Structural Analysis Felton, 1997-03 *Elementary Structural Analysis* Charles Head Norris, 1990-10-01 **Solutions Manual** AGHAYERE, 2021-03-28 **Solutions Manual for Introductory Structural Analysis** Chu-Kia Wang, Charles G. Salmon, 1984* *Structural Analysis E2* Im Aslam Kassimali, 1998-12 *Solutions Manual to Accompany Structural Analysis* Harold I. Laursen, 1978 *Solutions Manual to Accompany Structural Analysis and Design* , 1981

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