

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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**Jack C. McCormac**



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Fundamentals of Structural Analysis introduces engineering and architectural students to the basic techniques for analyzing the most common structural elements including beams trusses frames cables and arches The content in this textbook covers the classical methods of analysis for determinate and indeterminate structures and provides an introduction to the matrix formulation on which computer analysis is based Although it is assumed that readers have completed basic courses in statics and strength of materials the basic techniques from these courses are briefly reviewed the first time they are mentioned To clarify discussion this edition uses many carefully chosen examples to illustrate the various analytic techniques introduced and whenever possible examples confronting engineers in real life professional practice have been selected

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**Structural Analysis** Russell C. Hibbeler, 1995

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

**Solutions Manual to Accompany Structural Analysis for Engineers** Nicholas Willems, William M. Lucas, 1978

**Solutions Manual for Structural Analysis** Jeffrey P. Laible, 1985

**Structural Analysis, Fourth Edition** R. C. Hibbeler, 1999

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

**Introduction to Structural Analysis** Debrabrata Podder, Santanu Chatterjee, 2021-10 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

**Matrix Structural Analysis (Solution Manual)** William McGuire, Richard Hugo Gallagher, 1982

**Matrix Structural Analysis** Felton, 1997-03

**Structural Analysis** Gianluca Ranzi, Raymond Ian Gilbert, 2018-10-08 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

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**Elementary Structural Analysis** Charles Head Norris,1990-10-01      **Solutions Manual** AGHAYERE,2021-03-28

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