



**SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR**  
Siddharth Nagar, Narayanavanam Road - 517583

**QUESTION BANK (DESCRIPTIVE)**

**Subject with Code : SA-II (13A01505)**

**Course & Branch: B.Tech – CE**

**Year & Sem: III-B.Tech & I-Sem**

**Regulation: R13**

**UNIT – III**

**KANI'S METHOD**

1. Determine the moments at supports if support B yield by 10 mm under the given loading for the beam as show in figure below by Kani's method.  $E=2.05 \times 10^5 \text{ N/mm}^2$ ,  $I=30 \times 10^8 \text{ mm}^4$ , 10M



2. Determine the end moments of the continuous beam as shown in figure below by Kani's method. E is constant. 10M



- 3.(a) Explain how settlement of supports in accounted in to Kani's method of analysis of structures. 5M  
(b) Explain how portal frames with side sways are analysed. 5M
4. Analyse the structure shown in figure using Kani's method and draw BMD. 10M



5. Analyse the continuous beam shown in figure by Kani's method and sketch the B.M diagram gives all the salient values 10M

# Solved Problems In Structural Analysis Kani Method

**O García**



## **Solved Problems In Structural Analysis Kani Method :**

**Introduction to Structural Analysis** Meesala Chakradhara Rao, 2025-10-24 This textbook provides fundamental concepts and a comprehensive analysis of indeterminate structures by both force and displacement methods. Major coverage includes the analysis of beams, rigid jointed plane frames and pin jointed plane frames by various force and displacement methods followed by the analysis of multi storey frames using approximate methods, influence lines for indeterminate structures and two hinged arches. Each chapter contains an introduction, methodology, necessary derivations, equations and examples. Features: Discusses advanced levels of structural analysis with a focus on indeterminate structures. Covers approximate methods for the analysis of multi storey frames, two hinged arches and influence lines for indeterminate beams. Separately discusses both flexibility and stiffness matrix methods for beams, rigid joint plane frames and pin joint plane frames. Step by step procedure for solving problems in each method. Explains the problems with neat coloured free body diagrams, shear force and bending moment diagrams and probable elastic curves. Includes review questions and answers for numerical problems and examples. This book is aimed at undergraduate and senior undergraduate students in structural and civil engineering. *Fundamentals of Structural Analysis, 2nd Edition* Roy, Sujit Kumar & Chakrabarty Subrata, 2003 For B E B Tech in Civil Engineering and also useful for M E M Tech students. The book takes an integral look at structural engineering starting with fundamentals and ending with computer analysis. This book is suitable for 5th, 6th and 7th semesters of undergraduate course. In this edition a new chapter on plastic analysis has been added. A large number of examples have been worked out in the book so that students can master the subject by practising the examples and problems.

**Introduction to Structural Analysis** B. D. Nautiyal, 2001 This Book Deals With The Subject Of Structural Analysis Of Statically Determinate Structures Prescribed For The Degree And Diploma Courses Of Various Indian Universities And Polytechnics. It Is Useful As Well For The Students Appearing In Gate, Amie And Various Other Competitive Examinations Like That For Central And State Engineering Services. It Is A Valuable Guide For The Practising Engineers And Other Professionals. The Scope Of The Material Presented In This Book Is Sufficiently Broad To Include All The Basic Principles And Procedures Of Structural Analysis Needed For A Fresh Engineering Student. It Is Also Sufficiently Complete For One To Become Familiar With The Principles Of Mechanics And Proficient In The Use Of The Fundamentals Involved In Structural Analysis Of Simple Determinate Structures. The Book Is Written In Easy To Understand English With Clarity Of Expression And Continuity Of Ideas. The Chapters Have Been Arranged Systematically And The Subject Matter Developed Step By Step From The Very Fundamentals To A Fully Advanced Stage. In Each Chapter The Design Significance Of Various Concepts And Their Subsequent Applications In Field Problems Have Been Highlighted. The Theory Has Been Profusely Illustrated Through Well Designed Examples Throughout The Book. Several Numerical Problems For Practice Have Also Been Included. *Stress Formulation in Three-Dimensional Elasticity* Surya N. Patnaik, 2001 The theory of elasticity evolved over centuries through

the contributions of eminent scientists like Cauchy Navier Hooke Saint Venant and others It was deemed complete when Saint Venant provided the strain formulation in 1860 However unlike Cauchy who addressed equilibrium in the field and on the boundary the strain formulation was confined only to the field Saint Venant overlooked the compatibility on the boundary Because of this deficiency a direct stress formulation could not be developed Stress with traditional methods must be recovered by backcalculation differentiating either the displacement or the stress function We have addressed the compatibility on the boundary Augmentation of these conditions has completed the stress formulation in elasticity opening up a way for a direct determination of stress without the intermediate step of calculating the displacement or the stress function

Matrix Structural Analysis J. L. Meek,1971     **Applied Mechanics Reviews** ,1970     *Structural Analysis* D. S. Prakash Rao,1996 This book presents a unified approach to the analysis of structures by combining classical and matrix method of analysis It is designed to provide a thorough understanding of the basic concepts of structural analysis and to develop intuitive perception in students     *Analytical Methods in Structural Engineering* Sarwar Alam Raz,1974     Automatic Computational Techniques in Civil and Structural Engineering E. Litton,1973     **Modern Methods in Structural Mechanics** B. N. Thadani,1964     Journal of the Institution of Engineers (India) ,1983     Journal of the Institution of Engineers (India). Electrical Engineering Division ,1982     *Journal of Engineering Mechanics* ,2001     **Multi-story Frames : Calculation and Moment-tables, the Methods of Cross, Kani and Takabeya** Fukuhei Takabeya,1965     **Civil Engineering Practice: Structures** Paul N. Cheremisinoff,Nicholas P. Cheremisinoff,Su Ling Cheng,1987     **The Indian & Eastern Engineer** ,1972     Abstract Journal in Earthquake Engineering ,1972     **Manuals of Engineering Practice** ,1970     **The British National Bibliography** Arthur James Wells,1959     Ossature Métallique ,1969-07

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