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Pankaj Agarwal is the assistant professor at the department of earthquake engineering, Indian Institute of Technology, Roorkee. He completed his PhD in earthquake engineering from the University of Roorkee. He is also a life member of the Indian Society of Earthquake Technology. Department of Earthquake Engineering,Indian Institue of...

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Agarwal, Pankaj Pankaj Agarwal, Ph.D., is Assistant Professor at the Department of Earthquake Engineering, Indian Institute of Technology Roorkee. He has been engaged in teaching and research in...

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1. Name : Pankaj Agarwal 2. Designation : Professor 3. Affiliation : Department of Earthquake Engineering, IIT Roorkee, Roorkee - 247667 4. Date of Birth : 30-11-1966 5. Teaching/Research/ Professional Experience : Designation Employer From To Nature of Duties Lecture IIT Roorkee 28/06/2001 28/09/2004 Teaching of UG & PG

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Earthquake Engineering 2012 (15WCEE) Lisbon, Portugal 24-28 September 2012 Volume 1 of 38 . Printed from e-media with permission by: Curran Associates, Inc. ... Prahlad Prasad, Manish Shrikhande, Pankaj Agarwal Number of Yield Excursion Cycles Versus Performance Based Seismic Design

15th World Conference on Earthquake Engineering 2012 (15WCEE)

Pankaj Agarwal Earthquake Engineering Pankaj Agarwal is the assistant professor at the department of earthquake engineering, Indian Institute of Technology, Roorkee. He completed his PhD in earthquake engineering from the University of Roorkee. He is also a life member of the Indian Society of Earthquake Technology.

Earthquake Resistant Design of Structures

This comprehensive and well-organized book presents the concepts and principles of earthquake resistant design of structures in an easy-to-read style. The use of these principles helps in the implementation of seismic design practice. The book adopts a step-by-step approach, starting from the fundamentals of structural dynamics to application of seismic codes in analysis and design of structures. The text also focusses on seismic evaluation and retrofitting of reinforced concrete and masonry buildings. The text has been enriched with a large number of diagrams and solved problems to reinforce the understanding of the concepts. Intended mainly as a text for undergraduate and postgraduate students of civil engineering, this text would also be of considerable benefit to practising engineers, architects, field engineers and teachers in the field of earthquake resistant design of structures.

Earthquake-resistant Design of Structures 2e is designed for undergraduate students of civil engineering.

Earthquake Resistant Design of Structures

This comprehensive and well-organized book presents the concepts and principles of earthquake resistant design of structures in an easy-to-read style. The use of these principles helps in the implementation of seismic design practice. The book adopts a step-by-step approach, starting from the fundamentals of structural dynamics to application of seismic codes in analysis and design of structures. The text also focusses on seismic evaluation and retrofitting of reinforced concrete and masonry buildings. The text has been enriched with a large number of diagrams and solved problems to reinforce the understanding of the concepts. Intended mainly as a text for undergraduate and postgraduate students of civil engineering, this text would also be of considerable benefit to practising engineers, architects, field engineers and teachers in the field of earthquake resistant design of structures.

This fascinating new book examines the issues of earthquake geotechnical engineering in a comprehensive way. It summarizes the present knowledge on earthquake hazards and their causative mechanisms as well as a number of other relevant topics. Information obtained from earthquake damage investigation (such as ground motion, landslides, earth pressure, fault action, or liquefaction) as well as data from laboratory tests and field investigation is supplied, together with exercises/questions.

This is an entry level textbook To The subject of vibration of linear mechanical systems. All the topics prescribed by leading universities for study in undergraduate engineering courses are covered in the book in a graded manner. With minimum amount of mathematics, which is essential to Understand The subject, theoretical aspects are described in each chapter. The theory is illustrated by several worked examples, which features will be found attractive by teachers and students alike. After a brief introduction to Fourier series in the first chapter, free and forced vibration of single degree-of-freedom systems with and without damping is developed in the next four chapters. Two degree-of-freedom systems including vibration absorbers are studied in chapter six. The seventh chapter generalises the previous results to multiple degree-of-freedom systems. Examples are wokred out in details to illustrate the orthogonality of mode shapes, The normal mode method And The method of matrix iteration. Analysis of continuous systems such as shafts, bars and beams is presented in chapter eight. Transformations to handle general time dependent boundary condition problems are described with examples. Torsional vibration of geared systems, shaft whirling and critical speeds are discussed in chapter nine. The numerical methods of Stodola and Holzer for finding critical speeds are described with examples. The tenth chapter is devoted to understand approximate methods for finding natural frequencies and mode shapes. Rayleigh's quotient, Dunkerley's approximation are described followed by Rayleigh-Ritz and Galerkin's methods. The book ends with a short appendix to indicate how elementary result derived in chapter four on support excitation of damped springmass systems are useful in measurement of vibration.

Intended to serve as a textbook for the undergraduate students of civil engineering, this textbook is arranged in a logical and comprehensible manner that would be easier to follow by the students. It provides a broad understanding of fundamental concepts, traditional methods and advanced methods of structural analysis. Both determinate and indeterminate structures with different loading and support conditions are solved using different techniques. The matrix methods are presented in a simpler way which would be beneficial to develop the computer programs by the students. KEY FEATURES This text includes: • Fundamental principles of structural analysis • Complete matrix methods of analysis • Traditional methods of analysis of indeterminate structures • Influence lines • Approximate methods of analysis • Extensive solved examples in SI units • Variety of hands-on exercises • Answers to exercise problems TARGET AUDIENCE • B.Tech (Civil Engineering)

This book provides senior undergraduate students, master students and structural engineers who do not have a background in the field with core knowledge of structural earthquake engineering that will be invaluable in their professional lives. The basics of seismotectonics, including the causes, magnitude, and intensity of earthquakes, are first explained. Then the book introduces basic elements of seismic hazard analysis and presents the concept of a seismic hazard map for use in seismic design. Subsequent chapters cover key aspects of the response analysis of simple systems and building structures to earthquake ground motions, design spectrum, the adoption of seismic analysis procedures in seismic design codes, seismic design principles and seismic design of reinforced concrete structures. Helpful worked examples on seismic analysis of linear, nonlinear and base isolated buildings, earthquake-resistant design of frame and frame-shear wall systems are included, most of which can be solved using a hand calculator.

Primarily intended for senior undergraduate and postgraduate students of civil, mechanical and aerospace/aeronautical engineering, this text emphasises the importance of reliability in engineering computations and understanding the process of computer aided engineering. Written with a view to promote the correct use of finite element technology and to present a detailed study of a set

of essential computational tools for the practice of structural dynamics, this book is a ready-reckoner for an in-depth discussion of finite element theory and estimation and control of errors in computations. It is specifically aimed at the audience with interest in vibrations and stress analysis. Several worked out examples and exercise problems have been included to describe the various aspects of finite element theory and modelling. The exercise on error analysis will be extremely helpful in grasping the essence of posteriori error analysis and mesh refinement. KEY FEATURES • Thorough discussion of numerical algorithms for reliable and efficient computation. • Ready-to-use finite element system and other scientific applications. • Tips for improving the quality of finite element solutions. • Companion DVD containing ready to use finite element applications. AUDIENCE: Senior Undergraduate and Postgraduate students of Civil, Mechanical and Aerospace/Aeronautical engineering

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