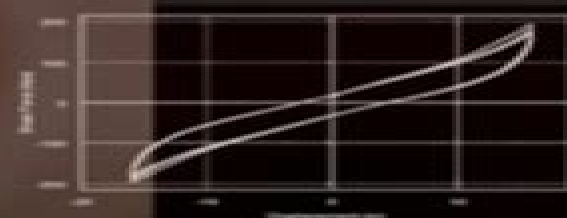


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Dimitrios A. Konstantinidis

MECHANICS OF RUBBER BEARINGS FOR SEISMIC AND VIBRATION ISOLATION

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Mechanics of Rubber Bearings for Seismic and Vibration Isolation James M. Kelly, Dimitrios Konstantinidis, 2011-08-24

Widely used in civil mechanical and automotive engineering since the early 1980s multilayer rubber bearings have been used as seismic isolation devices for buildings in highly seismic areas in many countries Their appeal in these applications comes from their ability to provide a component with high stiffness in one direction with high flexibility in one or more orthogonal directions This combination of vertical stiffness with horizontal flexibility achieved by reinforcing the rubber by thin steel shims perpendicular to the vertical load enables them to be used as seismic and vibration isolators for machinery buildings and bridges *Mechanics of Rubber Bearings for Seismic and Vibration Isolation* collates the most important information on the mechanics of multilayer rubber bearings It explores a unique and comprehensive combination of relevant topics covering all prerequisite fundamental theory and providing a number of closed form solutions to various boundary value problems as well as a comprehensive historical overview on the use of isolation Many of the results presented in the book are new and are essential for a proper understanding of the behavior of these bearings and for the design and analysis of vibration or seismic isolation systems The advantages afforded by adopting these natural rubber systems is clearly explained to designers and users of this technology bringing into focus the design and specification of bearings for buildings bridges and industrial structures This comprehensive book includes state of the art as yet unpublished research along with all required fundamental concepts is authored by world leading experts with over 40 years of combined experience on seismic isolation and the behavior of multilayer rubber bearings is accompanied by a website at www.wiley.com/go/kelly The concise approach of *Mechanics of Rubber Bearings for Seismic and Vibration Isolation* forms an invaluable resource for graduate students and researchers practitioners in structural and mechanical engineering departments in particular those working in seismic and vibration isolation

Mechanics of Rubber Bearing for Seismic and Vibration Isolation James M. Kelly, 2011 History of multilayer rubber bearing Behavior of multilayer rubber behavior under compression Behavior of multilayer rubber bearing under bending Stress in multilayer rubber bearing under compression and bending Effect of friction on unbonded rubber bearing

Life-Cycle Civil Engineering: Innovation, Theory and Practice Airong Chen, Xin Ruan, Dan M. Frangopol, 2021-02-26 *Life Cycle Civil Engineering Innovation Theory and Practice* contains the lectures and papers presented at IALCCE2020 the Seventh International Symposium on Life Cycle Civil Engineering held in Shanghai China October 27 30 2020 It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions including the Fazlur R Khan lecture eight keynote lectures and 221 technical papers from all over the world All major aspects of life cycle engineering are addressed with special emphasis on life cycle design assessment maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life

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