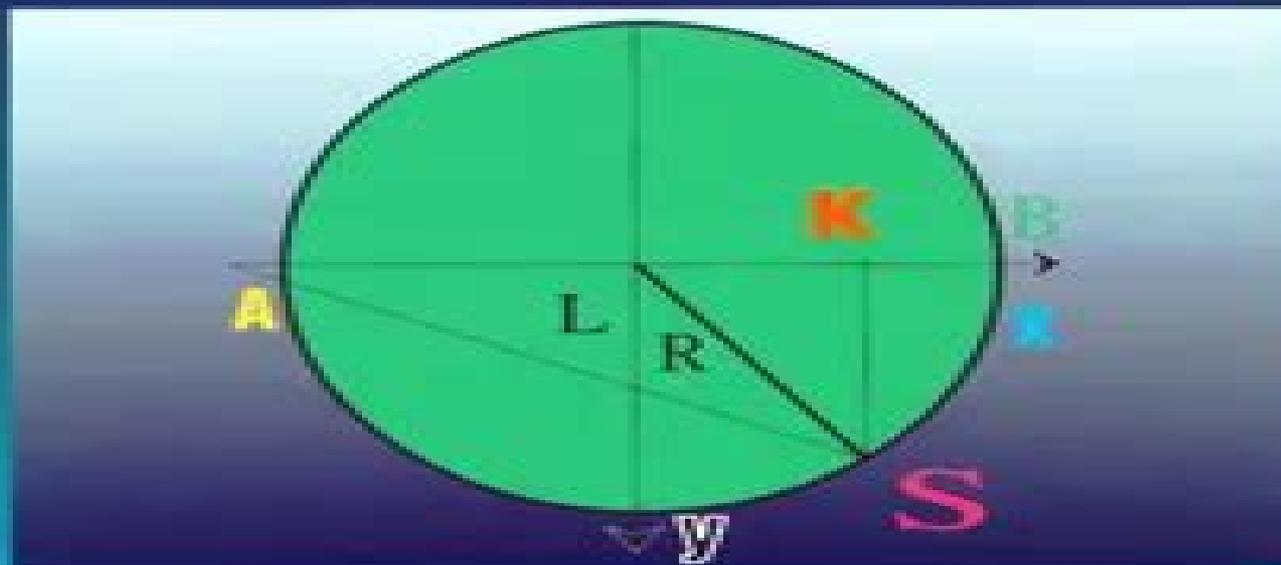




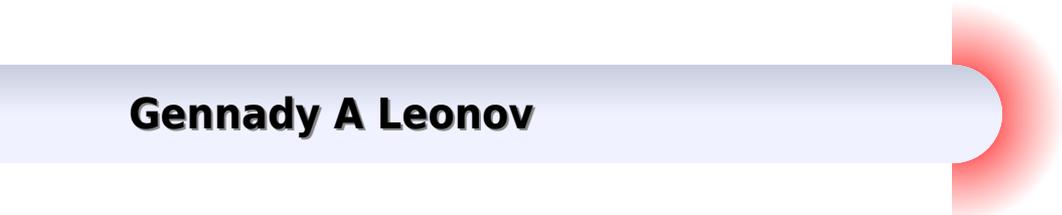
# Stability Theory of Elastic Rods

Teodor M. Atanackovic



# Stability Theory Of Elastic Rods

**Gennady A Leonov**



## **Stability Theory Of Elastic Rods:**

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**Mathematical Problems Of Control Theory: An Introduction** Gennady A Leonov, 2001-11-28 This book shows clearly how the study of concrete control systems has motivated the development of the mathematical tools needed for solving such problems In many cases by using this apparatus far reaching generalizations have been made and its further development will have an important effect on many fields of mathematics In the book a way is demonstrated in which the study of the Watt flyball governor has given rise to the theory of stability of motion The criteria of controllability observability and stabilization are stated Analysis is made of dynamical systems which describe an autopilot spacecraft orientation system controllers of a synchronous electric machine and phase locked loops The Aizerman and Brockett problems are discussed and an introduction to the theory of discrete control systems is given

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Scientific and Technical Aerospace Reports ,1975 Impact & Friction Of Solids, Structures & Machines: Theory & Applications In Engineering & Science, Intl Symp Ardeshir Guran,Brian F Feeny,A Klarbring,Yukio Ishida,2000-07-25 This book deals with the dynamics of mechanical systems in presence of impact and friction The contributors are an international group of engineers and scientists from industrial and academic institutions of more than 23 countries around the world concerned with the modeling analysis measurement and control of nonsmooth mechanical structures Contact laws lead to mathematical models that are highly nonlinear and nonsmooth or discontinuous Discontinuous and nonsmooth processes introduce problems with data processing techniques and analytical methods Thanks to great advances in computer technology and computational analysis as well as the introduction of new experimental devices such as the atomic force microscope and the quartz crystal microbalance probe the study of impact and friction one of the oldest problems in physics is now in a phase of rapid and exciting development The growing number of research breakthroughs have promoted the development of new technologies in the description and design of systems with impact and friction models to understand nature structures machines transportation systems and other processes A fairly comprehensive picture of these new developments is presented in this book by researchers who are giving up to date accounts of the present state of the field in many aspects The book is essential for introducing readers in mechanical engineering material science applied mathematics aerospace engineering ocean engineering biomechanics and civil engineering to recent developments in nonsmooth mechanics It is also useful for self study purposes by professionals and practitioners in the field

*Topics in Finite Elasticity* Michael Hayes,Giuseppe Saccomandi,2014-05-04 More than fifty years ago Professor R S Rivlin pioneered developments in both the theory and experiments of rubber elasticity These together with his other fundamental studies contributed to a revitalization of the theory of finite elasticity which had been dormant since the basic understanding was completed in the nineteenth century This book with chapters on foundation models universal results wave propagation qualitative theory and phase transitions indicates that the subject he reinvigorated has remained remarkably vibrant and has continued to present significant deep mathematical and experimental challenges

*Mathematical Models of Beams and Cables* Angelo Luongo,Daniele Zulli,2013-12-02 Nonlinear models of elastic and visco elastic onedimensional continuous structures beams and cables are formulated by the authors of this title Several models of increasing complexity are

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