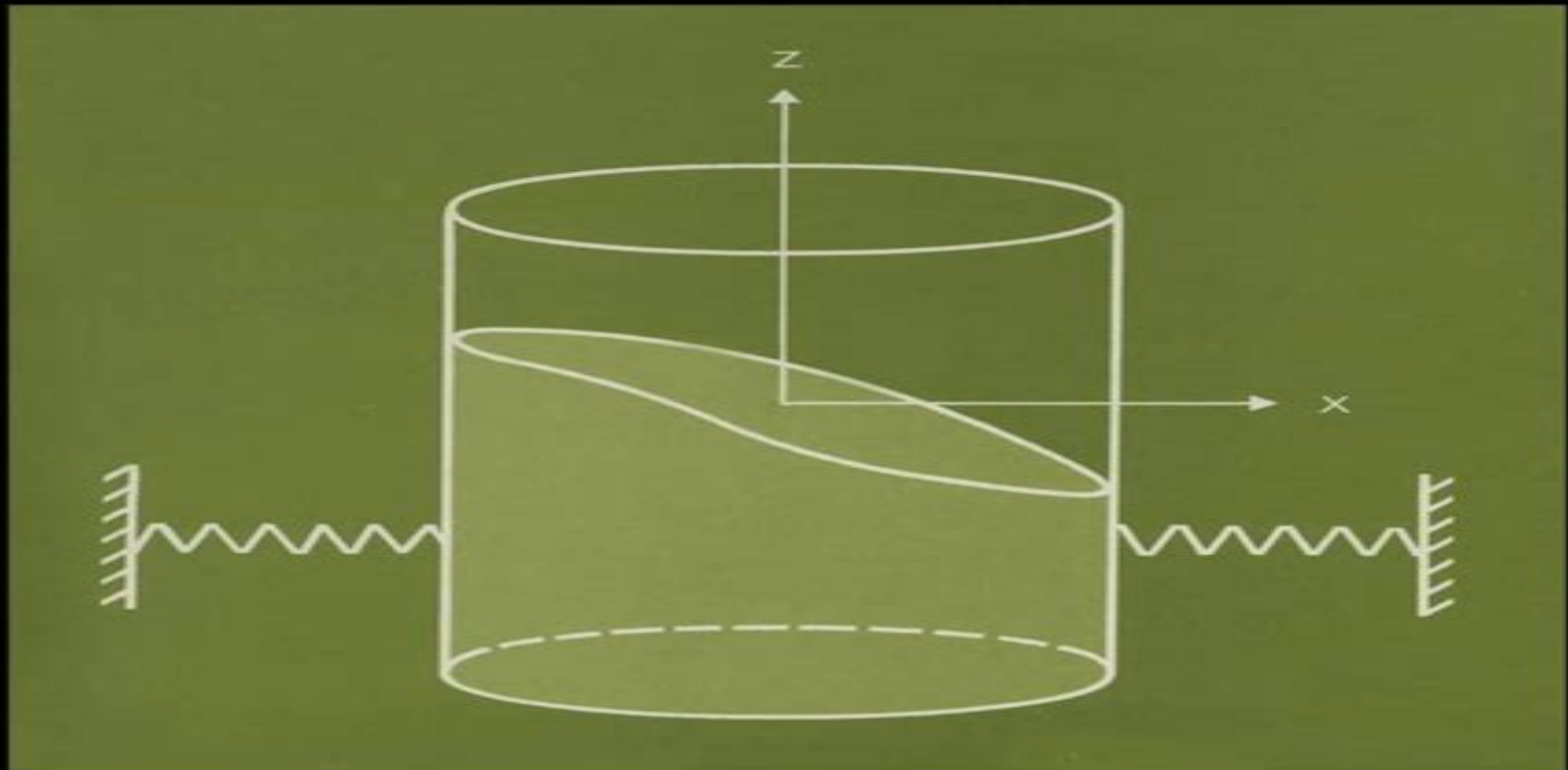


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# Dynamic Stability of Bodies Containing Fluid

N. N. MOISEYEV and V. V. RUMYANTSEV



# Dynamic Stability Of Bodies Containing Fluid Applied Physics And Engineering

**Nikita Nikolaevič Moiseev, Valentin  
Vital'evič Rumjancev**



## **Dynamic Stability Of Bodies Containing Fluid Applied Physics And Engineering:**

**Dynamic Stability of Bodies Containing Fluid** N.N. Moiseyev, V.V. Rumyantsev, 2012-12-06 The dynamics of bodies containing fluids is a subject of long standing importance in many technical applications The stability of motion of such bodies in particular has been the subject of study by Soviet engineers and applied mathematicians who have brought their full powers of analysis to bear on the problem and have succeeded in developing a very well founded body of theory It is difficult to find a more striking example anywhere of the application of the classical methods of analytical mechanics together with more modern concepts of stability analysis in such a comprehensive and elegant form as that presented by Profs Moiseyev and Rumyantsev Therefore it is highly significant that this recent monograph has been translated and made available to the English speaking community H NORMAN ABRAMSON San Antonio July 1967 v Foreword During the last 15 20 years problems of dynamics of rigid bodies with fluid filled cavities have increasingly attracted the attention of scientists

**Dynamic stability of bodies containing fluid** Nikita Nikolaevič Moiseev, Valentin Vital'evič Rumjancev, 1968

Dynamic Stability of Bodies Containing Fluid . [By] N. N. Moiseyev and V. V. Rumyantsev. Edited by N. H. Abramson. Translated by Scripta Technica N. N. Moiseev, V. V. Rumjancev, 1968 **Nonlinear Dynamics** Ivan A. Lukovsky, 2015-04-24 This book is devoted to analytically approximate methods in the nonlinear dynamics of a rigid body with cavities containers partly filled by a liquid The methods are normally based on the Bateman-Luke variational formalism combined with perturbation theory The derived approximate equations of spatial motions of the body-liquid mechanical system these equations are called mathematical models in the title take the form of a finite dimensional system of nonlinear ordinary differential equations coupling quasi-velocities of the rigid body motions and generalized coordinates responsible for displacements of the natural sloshing modes Algorithms for computing the hydrodynamic coefficients in the approximate mathematical models are proposed Numerical values of these coefficients are listed for some tank shapes and liquid fillings The mathematical models are also derived for the contained liquid characterized by the Newton type dissipation Formulas for hydrodynamic force and moment are derived in terms of the solid body quasi-velocities and the sloshing related generalized coordinates For prescribed harmonic excitations of upright circular annular cylindrical and/or conical tanks the steady state sloshing regimes are theoretically classified the results are compared with known experimental data The book can be useful for both experienced and early stage mechanicians applied mathematicians and engineers interested in semi-analytical approaches to the fluid-structure interaction problems their fundamental mathematical background as well as in modeling the dynamics of complex mechanical systems containing a rigid tank partly filled by a liquid Sloshing in Upright Circular Containers Ihor Raynovskyy, Alexander Timokha, 2020-10-07 This book presents mathematical fundamentals and results on sloshing in an upright circular cylindrical tank with semi-analytical solutions The book outlines generic mathematical and physical aspects of the multimodal method describes milestones and presents several versions of modal systems for an

upright circular tank both linear and nonlinear The book offers an extended description of the state of the art theoretical sloshing with more than 200 references It presents mathematical fundamentals of free surface sloshing problems details linear and nonlinear modal equations provides analytical estimates of viscous damping and covers stability analysis of steady state solution The book is for engineers dealing with sloshing applied mathematicians working on free surface problems and lecturers in fluid mechanics that need to know the fundamentals and analytical solutions from surface wave theory

*Analytical Mechanics: A Comprehensive Treatise On The Dynamics Of Constrained Systems (Reprint Edition)* John G Papastavridis, 2014-03-06 This is a comprehensive state of the art treatise on the energetic mechanics of Lagrange and Hamilton that is classical analytical dynamics and its principal applications to constrained systems contact rolling and servoconstraints It is a book on advanced dynamics from a unified viewpoint namely the kinetic principle of virtual work or principle of Lagrange As such it continues renovates and expands the grand tradition laid by such mechanics masters as Appell Maggi Whittaker Heun Hamel Chetaev Synge Pars Lur Gantmacher Neimark and Fufaev Many completely solved examples complement the theory along with many problems all of the latter with their answers and many of them with hints Although written at an advanced level the topics covered in this 1400 page volume the most extensive ever written on analytical mechanics are eminently readable and inclusive It is of interest to engineers physicists and mathematicians advanced undergraduate and graduate students and teachers researchers and professionals all will find this encyclopedic work an extraordinary asset for classroom use or self study In this edition corrections of the original edition 2002 have been incorporated **Proceedings of the ... ASME Design Engineering Technical Conferences** ,2005 *Proceedings of the ... Congress of the International Council of the Aeronautical Sciences* International Council of the Aeronautical Sciences. Congress, 1974 **Classed Subject Catalog** Engineering Societies Library, 1969 *Proceedings of the ASME International Design Engineering Technical Conferences and Computers and Information in Engineering Conferences--2005* ,2005

**Geometrical Optics** H.G. Zimmer, 2013-03-08 Geometrical optics is no longer fashionable Research workers do not expect significant new discoveries to be made in this field of classical physics Teachers avoid the subject because its use for many generations in arid mathematical exercises has robbed it of all freshness and stimulus with the result that it no longer seems relevant to a modern physics course There remains and perhaps this has grown in recent year the technical significance of geometrical optics It provides the basis for the design of optical instruments for use in everyday life as well as for scientific and industrial purposes This small book is intended to treat two aspects of the subject the laws of geometrical optics and their application to the design of optical instruments The theory is not based on Snell's law of refraction but on a conservation law for the radiated energy The subject can then be treated in a manner appropriate to contemporary physics auxiliary geometrical parameters become unnecessary and the singularities resulting from their use vanish The laws of geometrical optics can be formulated much more simply and their physical significance is revealed more clearly I have tried

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