

# Dynamics of elastic containers partially filled with liquid (Applied physics and engineering; an international series)



The motions of liquids in moving containers constitute a broad class of problems of great practical importance in many technical fields. The influence of the dynamics of the liquid on the motions of the container itself is a most interesting and complex aspect of the general subject, whether one considers only the rigid-body motions of the container or its elastic motions as well. It is most fitting therefore that this translation of Professor Rapoport's book has been undertaken so promptly following its original publication, so as to make readily available this rather detailed account of the mathematical foundations underlying the treatment of such problems. Since most of this vast body of analysis has been developed over the past decade by scientists in the USSR, and has therefore been largely unavailable to those unable to read Russian, this volume will undoubtedly be of great value to many of us. H.

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. Figures 1(bf) show snapshots of the bouncing dynamics of cylindrical containers filled **Dynamics of Elastic Containers - Springer** ZAMM ? Journal of Applied Mathematics and Mechanics / Zeitschrift für Angewandte Mathematik und Mechanik. Previous article in issue: G. W. **I. M. Rapoport, Dynamics of Elastic Containers Partially Filled with** Re-entry and Planetary Entry Physics and Technology I / Dynamics, Physics, Radiation, Series: Applied Physics and Engineering, An International Series, 2 Published: (1968) Dynamics of Elastic Containers Partially Filled with Liquid / **The Case When the Elastic Body Is Symmetrical with Respect to** 6. Juli 2016 I. M. Rapoport, Dynamics of Elastic Containers Partially Filled with Liquid. (Applied Physics and Engineering, An International Series, Vol. **Numerical Analysis of Fluid Motion Inside Partially Filled Container** Title Dynamics of Elastic Containers: Partially Filled with Liquid. 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G. Freud, Orthogonale Polynome. (Mathematische Reihe, Band 33). 294 S. Basel/Stuttgart 1969. Birkhauser Verlag. Preis geb. Sfr. 42.00 **Comments: Re-entry and Planetary Entry Physics and Technology** Applied Physics and Engineering. Volume 5 1968. Dynamics of Elastic Containers of Motion of an Elastic Body with Cavities Partially Filled with an Ideal Fluid and Engineering Series Volume: 5 Series Subtitle: An International Series **Koha online catalog Details for: Dynamics of elastic containers** Dynamics of elastic containers partially filled with liquid (Record no. 98453) Series statement, (Applied physics and engineering an International series, V.5). **I. M. Rapoport, Dynamics of Elastic Containers Partially Filled with** Show Summary Details . 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