



Combustion Instabilities in Liquid Rocket Engines: Testing and Development Practices in Russia (Progress in Astronautics & Aeronautics) (Progress in Astronautics and Aeronautics)

Mark Dranovsky

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"This is the first book in the literature to cover the development and testing practices for liquid rocket engines in Russia and the former Soviet Union.

Combustion instability represents one of the most challenging problems in the development of propulsion engines. A famous example is the F-1 engines for the first stage of the Saturn V launch vehicles in the Apollo project. More than 2000 full engine tests and a vast number of design modifications were conducted to cure the instability problem.

This book contains first-hand information about the testing and development practices for treating liquid rocket combustion-instability problems in Russia and the former Soviet Union. It covers more than 50 years of research, with an emphasis placed on the advances made since 1970.

The book was prepared by a former R&D director of the Research Institute of Chemical Engineering, NIICHIMMASH, the largest liquid rocket testing center in the world, and has been carefully edited by three well-known experts in the field."

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