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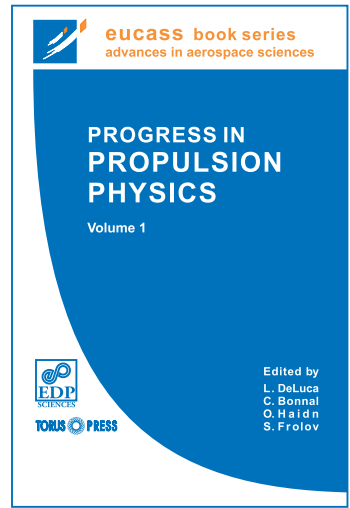


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Progress in
PROPULSION PHYSICS – Vol. 1

Edited by L. DeLuca, C. Bonnal, O. Haidn, S. Frolov

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Summary

The book contains 44 revised and edited papers addressing various issues of propulsion physics written by world-known experts. The papers include critical analyses of previous studies and controversial aspects of novel propulsion concepts, new theoretical and experimental results and findings as well as numerous references to archival publications worldwide. The book is organized in 8 chapters: (1) Solid Rocket Propulsion; (2) Liquid and Gelled Rocket Propulsion; (3) Fluid/Structure Interactions in Space/Launch Vehicles; (4) Pulsed/Continuous Detonation Propulsion; (5) Electric Propulsion for Spacecrafts; (6) Airbreathing, Turbomachinery, and LAPCAT; (7) Ceramic Matrix Composites for Aerospace Applications; and (8) Engine Health Monitoring. The book was prepared as a reference for research scientists and practicing engineers in the field of aerospace propulsion.

Luigi T. DeLuca, Professor of Aerospace Propulsion at Politecnico di Milano, Italy, leads the local SPLab laboratory specialized in combustion and ballistic characterization of energetic materials. He gained 30 years of experience in solid and hybrid rocket propulsion, is a member of the editorial committee of several international journals, and co-edited 8 books in rocket propulsion.

Christophe Bonnal, involved in launcher development for more than 25 years, has been responsible for Ariane 5 system tests then head of future launchers in CNES; he is currently Senior Expert in the CNES Launcher Directorate. Member of the International Academy of Astronautics, coordinator of the Space Transportation Committee within the International Astronautical Federation, coeditor of Acta Astronautica, Christophe Bonnal is General Secretary of the EUCASS association.

Oskar J. Haidn, since 1998 Deputy Director Research and Technology of the DLR Institute of Space Propulsion in Lampoldshausen, heads the local Department of Technology whose activities cover all major topics of thrust chamber technologies of liquid propellant rocket engines. He holds several patents in the field and is author and coauthor of more than 150 journal articles and conference contributions.

Sergey M. Frolov, Ph.D, D.Sc. is the Head of Department of Combustion and Explosion at Semenov Institute of Chemical Physics, and Professor at Moscow Physical Engineering Institute. He is an active research scientist in combustion and detonation physics and chemistry, an author of over 400 journal and conference papers and an editor of over 20 books.

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