



# **A Test Bench for Study of Liquid Rocket Engines: Design & Development of LRE Test Stand**

*Emerson Andrade dos Santos, Wilton Fernandes Alves, Cristiane Aparecida Martins*

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The present book is the result of two master's works about liquid propulsion. These works were developed at the Technological Institute of Aeronautics (ITA) in collaboration with the Institute of Aeronautics and Space (IAE). The main focus of the book is the development of an experimental educational tool which can be used in the formation of graduate students, training of personnel of the Institute of Aeronautics and Space (IAE) and also in research on liquid rocket engines. Covered topics include liquid rocket engine fundamentals, design and calculation of liquid rocket engines, methodology of laboratory work, development of test stand installation, measurement systems and uncertainty measures, control and data acquisition system and program development methodology. Audience for which the book was written: professionals and students involved in space technology, including researchers, engineers, designers and managers.

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