



NASA Solid Rocket Motor Performance Analysis and Prediction (Space Vehicle Design Criteria (Chemical Propulsion))

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This is the most complete and comprehensive book ever written about the theoretical and practical engineering design predictions for solid performance. It's thick, heavy, and packed with accurate information for the professional (and "amateur") rocket scientist, engineer, technician, and experimenter. This ultimate textbook tells exactly how to evaluate rocket motor static tests to determine the best grain geometries, motor configurations, and propellants for a design of any size. With these instructions you can make detailed analyses that will predict full-scale motor performance, by using theoretical performance criteria (from chemical-thermodynamic information), and the demonstrated performance data obtained from subscale motor tests, or from previous firings on full-scale motors of similar design. If you design, build, test, or use solid propellant rockets, you need this reference handbook. It's the official NASA design and engineering guide, loaded with once highly-secret data, parameters, scientific analyses, rocketry information, and esoteric lore, providing data on all types of rocket and missile propellant grains. The contents are the result of more than 25 years of investigations by the world's largest propulsion contractors. Literally billions of dollars were spent obtaining this critical yet hard-to-find data. This valuable book gives the practical information you need to design and evaluate a high-technology, state-of-the-art composite solid propellant rocket motor. All essential algebraic formulae and equations are included, working with a wide variety of common and complex propellants and motor configurations. If you design, build, test, or fly rockets or missiles of any size, you'll want this superb reference textbook. It's especially useful for "amateur" rocket builders -- with an abundance of data, esoteric information, and once-secret lore from the world's foremost rocket builders: Aerojet, Thiokol, Rocketdyne, Hercules, and NASA.

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