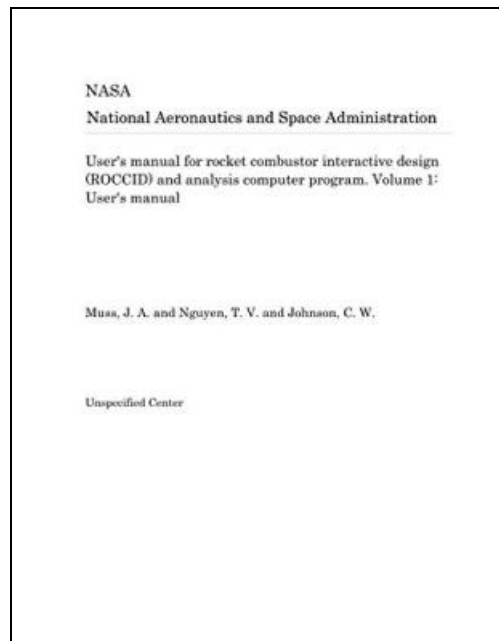# User's Manual for Rocket Combustor Interactive Design (Roccid) and Analysis Computer Program. Volume 1: User's Manual (Paperback)

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User's manual for rocket combustor interactive design (ROCCID) and analysis computer program. Volume 1: User's manual

Muss, J. A. and Nguyen, T. V. and Johnson, C. W.

Unspecified Center

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Reviews

It is simple in study safer to understand. It can be full of knowledge and wisdom Your way of life span is going to be enhance when you full looking at this book.
(Lavina Torp)

USER'S MANUAL FOR ROCKET COMBUSTOR INTERACTIVE DESIGN (ROCCID) AND ANALYSIS COMPUTER PROGRAM. VOLUME 1: USER'S MANUAL (PAPERBACK)

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Independently Published, United States, 2018. Paperback. Condition: New. Language: English. Brand new Book. The user's manual for the rocket combustor interactive design (ROCCID) computer program is presented. The program, written in Fortran 77, provides a standardized methodology using state of the art codes and procedures for the analysis of a liquid rocket engine combustor's steady state combustion performance and combustion stability. The ROCCID is currently capable of analyzing mixed element injector patterns containing impinging like doublet or unlike triplet, showerhead, shear coaxial, and swirl coaxial elements as long as only one element type exists in each injector core, baffle, or barrier zone. Real propellant properties of oxygen, hydrogen, methane, propane, and RP-1 are included in ROCCID. The properties of other propellants can easily be added. The analysis model in ROCCID can account for the influence of acoustic cavities, helmholtz resonators, and radial thrust chamber baffles on combustion stability. ROCCID also contains the logic to interactively create a combustor design which meets input performance and stability goals. A preliminary design results from the application of historical correlations to the input design requirements. The steady state performance and combustion stability of this design is evaluated using the analysis models, and ROCCID guides the user as to the design changes required to satisfy the user's performance and stability goals, including the design of stability aids. Output from ROCCID includes a formatted input file for the standardized JANNAF engine performance prediction procedure. Muss, J. A. and Nguyen, T. V. and Johnson, C. W. Unspecified Center.

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