



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

By National Aeronautics and Space Adm Nasa

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...



READ ONLINE

[1.64 MB]

Reviews

A must buy book if you need to adding benefit. It can be rally fascinating throgh studying period of time. I am just happy to explain how this is the very best ebook i actually have read within my individual existence and could be he finest book for ever.

-- **Cydney Hand**

Excellent e-book and useful one. It can be rally intriguing throgh looking at time period. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- **Pasquale Klocko**

See Also



Genuine new book Essentials of Leadership: Principles and Practice (4th Edition) (U.S.) Shiliboge. (U.S.(Chinese Edition)

paperback. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date :2012-05-01 Pages: 280 Publisher: Welcome to Our Publishing House of Electronics Industry. service and quality to your satisfaction. please...



THE WADSWORTH GUIDE TO RESEARCH 2ED (IE): MILLER-COCHRAN S K

PAPERBACK. Condition: New. Book Cover and ISBN may be different from US edition but contents as same US Edition. Excellent Quality, Service and customer satisfaction guaranteed! We may ship the books from Asian regions for inventory purpose. Our courier service is not...



Ladybird Tales: The Princess and the Pea (Hardback)

Penguin Books Ltd, United Kingdom, 2013. Hardback. Condition: New. UK ed. Language: English. Brand new Book. This beautiful hardback Ladybird edition of The Princess and the Pea is a perfect first illustrated introduction to this classic fairy tale for young readers from...



Pacemaker: English Composition, Teacher's Answer Edition

FEARON, 2001. Condition: New. book.



Elements Of Optoelectronics & Fiber Optics (Pb: Chen

PAPERBACK. Condition: New. Book Cover and ISBN may be different from US edition but contents as same US Edition. Excellent Quality, Service and customer satisfaction guaranteed! We may ship the books from Asian regions for inventory purpose. Our courier service is not...



Nessus Network Auditing: Beale Jay Et.Al

PAPERBACK. Condition: New. Book Cover and ISBN may be different from US edition but contents as same US Edition. Excellent Quality, Service and customer satisfaction guaranteed! We may ship the books from Asian regions for inventory purpose. Our courier service is not...