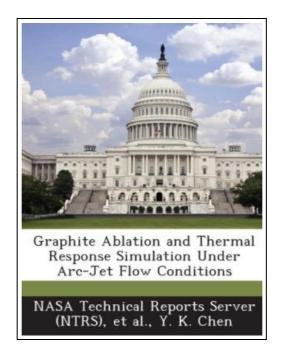
Graphite Ablation and Thermal Response Simulation Under ARC-Jet Flow Conditions



Filesize: 2.86 MB

Reviews

The publication is great and fantastic. It is packed with knowledge and wisdom You will like how the article writer publish this publication. (Mrs. Alta Kling V)

GRAPHITE ABLATION AND THERMAL RESPONSE SIMULATION UNDER ARC-JET FLOW CONDITIONS



To get **Graphite Ablation and Thermal Response Simulation Under ARC-Jet Flow Conditions** eBook, make sure you refer to the hyperlink beneath and save the document or get access to additional information which might be in conjuction with GRAPHITE ABLATION AND THERMAL RESPONSE SIMULATION UNDER ARC-JET FLOW CONDITIONS ebook.

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand ******. The Two-dimensional Implicit Thermal Response and Ablation program, TITAN, was developed and integrated with a Navier-Stokes solver, GIANTS, for multidimensional ablation and shape change simulation of thermal protection systems in hypersonic flow environments. The governing equations in both codes are demoralized using the same finite-volume approximation with a general body-fitted coordinate system. Time-dependent solutions are achieved by an implicit time marching technique using Gauess-Siedel line relaxation with alternating sweeps. As the first part of a code validation study, this paper compares TITAN-GIANTS predictions with thermal response and recession data obtained from arc-jet tests recently conducted in the Interaction Heating Facility (IHF) at NASA Ames Research Center. The test models are graphite sphere-cones. Graphite was selected as a test material to minimize the uncertainties from material properties. Recession and thermal response data were obtained from two separate arc-jet test series. The first series was at a heat flux where graphite ablation is mainly due to sublimation, and the second series was at a relatively low heat flux where recession is the result of diffusion-controlled oxidation. Ablation and thermal response solutions for both sets of conditions, as calculated by TITAN-GIANTS, are presented and discussed in detail. Predicted shape change and temperature histories generally agree well with the data obtained from the arc-jet tests.

- Read Graphite Ablation and Thermal Response Simulation Under ARC-Jet Flow Conditions Online
- Download PDF Graphite Ablation and Thermal Response Simulation Under ARC-Jet Flow Conditions
- Download ePUB Graphite Ablation and Thermal Response Simulation Under ARC-Jet Flow Conditions

You May Also Like



[PDF] Weebies Family Halloween Night English Language: English Language British Full Colour

Access the hyperlink listed below to read "Weebies Family Halloween Night English Language: English Language British Full Colour" PDF document.

Download PDF »



[PDF] Study and Master English Grade 6 Core Reader: First Additional Language

Access the hyperlink listed below to read "Study and Master English Grade 6 Core Reader: First Additional Language" PDF document.

Download PDF »



[PDF] Variations on an Original Theme Enigma, Op. 36: Study Score

Access the hyperlink listed below to read "Variations on an Original Theme Enigma , Op. 36: Study Score" PDF document.

Download PDF »



[PDF] Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition)

Access the hyperlink listed below to read "Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition)" PDF document.

Download PDF »



[PDF] YJ] New primary school language learning counseling language book of knowledge [Genuine Specials(Chinese Edition)

Access the hyperlink listed below to read "YJ] New primary school language learning counseling language book of knowledge [Genuine Specials (Chinese Edition)" PDF document.

Download PDF »



[PDF] Children's Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]

Access the hyperlink listed below to read "Children's Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]" PDF document.

Download PDF »



[PDF] Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)

Follow the web link below to read "Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)" PDF document.

Read ePub »



[PDF] Summer Fit Preschool to Kindergarten Math, Reading, Writing, Language Arts Fitness, Nutrition and Values

Follow the web link below to read "Summer Fit Preschool to Kindergarten Math, Reading, Writing, Language Arts Fitness, Nutrition and Values" PDF document.

Read ePub »



[PDF] The Complete Idiots Guide Complete Idiots Guide to Baby Sign Language by Diane Ryan 2006 Paperback Follow the web link below to read "The Complete Idiots Guide Complete Idiots Guide to Baby Sign Language by Diane Ryan 2006 Paperback" PDF document.

Read ePub »



[PDF] ESV Study Bible, Large Print

Follow the web link below to read "ESV Study Bible, Large Print" PDF document.

Read ePub »



[PDF] ESV Study Bible, Large Print (Hardback)

Follow the web link below to read "ESV Study Bible, Large Print (Hardback)" PDF document.

Read ePub »



[PDF] Monkeys Learn to Move: Puppet Theater Books Presents Funny Illustrated Bedtime Picture Values Book for Ages 3-8

Follow the web link below to read "Monkeys Learn to Move: Puppet Theater Books Presents Funny Illustrated Bedtime Picture Values Book for Ages 3-8" PDF document.

Read ePub »