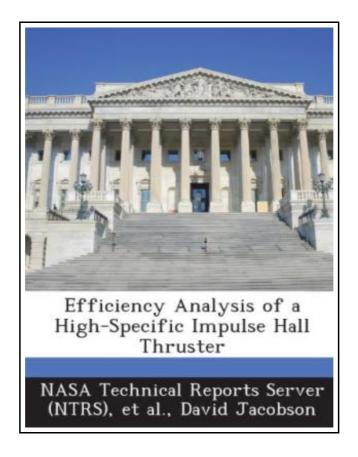
Efficiency Analysis of a High-Specific Impulse Hall Thruster



Filesize: 4.52 MB

Reviews

This pdf is so gripping and intriguing. I could comprehended almost everything using this composed e ebook. You are going to like just how the article writer create this ebook. (Miss Dakota Zulauf)

EFFICIENCY ANALYSIS OF A HIGH-SPECIFIC IMPULSE HALL THRUSTER



To read **Efficiency Analysis of a High-Specific Impulse Hall Thruster** eBook, remember to refer to the link under and download the document or get access to additional information that are in conjuction with EFFICIENCY ANALYSIS OF A HIGH-SPECIFIC IMPULSE HALL THRUSTER ebook.

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 26 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.Performance and plasma measurements of the high-specific impulse NASA-173Mv2 Hall thruster were analyzed using a phenomenological performance model that accounts for a partially-ionized plasma containing multiply-charged ions. Between discharge voltages of 300 to 900 V, the results showed that although the net decrease of efficiency due to multiply-charged ions was only 1. 5 to 3. 0 percent, the effects of multiply-charged ions on the ion and electron currents could not be neglected. Between 300 to 900 V, the increase of the discharge current was attributed to the increasing fraction of multiply-charged ions, while the maximum deviation of the electron current from its average value was only 5-14 percent. These findings revealed how efficient operation at high-specific impulse was enabled through the regulation of the electron current with the applied magnetic field. Between 300 to 900 V, the voltage utilization ranged from 89 to 97 percent, the mass utilization from 86 to 90 percent, and the current utilization from 77 to 81 percent. Therefore, the anode efficiency was largely determined by the current utilization. The electron Hall parameter was nearly constant with voltage, decreasing from an average of 210 at 300 V to an average of 160 between 400 to 900 V. These results confirmed our claim that efficient operation can be achieved only over a limited range of Hall parameters. This item ships from La Vergne,TN. Paperback.



POF

Read Efficiency Analysis of a High-Specific Impulse Hall Thruster Online





See Also



[PDF] The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up

Click the web link beneath to read "The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up" file.

Read PDF »



[PDF] Animalogy: Animal Analogies

Click the web link beneath to read "Animalogy: Animal Analogies" file.

Read PDF »



[PDF] God Loves You. Chester Blue

Click the web link beneath to read "God Loves You. Chester Blue" file.

Read PDF »



[PDF] Molly on the Shore, BFMS 1 Study score

Click the web link beneath to read "Molly on the Shore, BFMS 1 Study score" file.

Read PDF »



[PDF] Good Night, Zombie Scary Tales

Click the web link beneath to read "Good Night, Zombie Scary Tales" file.

Read PDF »



[PDF] The Mystery at Motown Carole Marsh Mysteries

 ${\bf Click\,the\,web\,link\,beneath\,to\,read\,"The\,Mystery\,at\,Motown\,Carole\,Marsh\,Mysteries"\,file.}$

Read PDF »



[PDF] Carmilla

Click the link listed below to download "Carmilla" document.

Download eBook »



[PDF] Silverlight 5 in Action

Click the link listed below to download "Silverlight 5 in Action" document.

Download eBook »



[PDF] Gypsy Breynton

Click the link listed below to download "Gypsy Breynton" document.

Download eBook »



[PDF] The Well-Trained Mind: A Guide to Classical Education at Home (Hardback)

Click the link listed below to download "The Well-Trained Mind: A Guide to Classical Education at Home (Hardback)" document.

Download eBook »



[PDF] El Desaf

Click the link listed below to download "El Desaf" document.

Download eBook »



[PDF] By the Fire Volume 1

Click the link listed below to download "By the Fire Volume 1" document.

Download eBook »