

JOURNAL OF PROPULSION AND POWER

VOLUME 33, NUMBER 3

MAY–JUNE 2017



SPECIAL SECTION ON RECOMMENDED PRACTICES FOR PERFORMANCE AND DIAGNOSTIC MEASUREMENT IN ELECTRIC PROPULSION

Introduction: Recommended Practices for Performance and Diagnostic Measurement in Electric Propulsion	537
Recommended Practice for Thrust Measurement in Electric Propulsion Testing	539
..... J. E. Polk, A. Pancotti, T. Haag, S. King, M. Walker, J. Blakely, J. Ziemer	
Recommended Practice for Flow Control and Measurement in Electric Propulsion Testing	556
..... J. S. Snyder, J. Baldwin, J. D. Frieman, M. L. R. Walker, N. S. Hicks,	
..... K. A. Polzin, J. T. Singleton	
Recommended Practice for Use of Langmuir Probes in Electric Propulsion Testing	566
..... R. B. Lobbia and B. E. Beal	
Recommended Practice for Use of Faraday Probes in Electric Propulsion Testing	582
..... D. L. Brown, M. L. R. Walker, J. Szabo, W. Huang, J. E. Foster	
Recommended Practice for Use of Emissive Probes in Electric Propulsion Testing	614
..... J. P. Sheehan, Y. Raitses, N. Hershkovitz, M. McDonald	
Recommended Practice for Use of Electrostatic Analyzers in Electric Propulsion Testing	638
..... C. C. Farnell, C. C. Farnell, S. C. Farnell, J. D. Williams	
Recommended Practice for Use of Inductive Magnetic Field Probes in Electric Propulsion Testing	659
..... K. A. Polzin, C. S. Hill, P. J. Turchi, R. L. Burton, S. Messer,	
..... R. H. Lovberg, A. K. Hallock	
Recommended Practice for Pressure Measurement and Calculation of Effective Pumping Speed in Electric Propulsion Testing	668
..... J. W. Dankanich, M. Walker, M. W. Swiatek, J. T. Yim	

FULL-LENGTH PAPERS

Simulations of Ion Thruster Plumes in Ground Facilities Using Adaptive Mesh Refinement	681
..... B. Korkut, D. A. Levin, O. Tumuklu	
Review of Calcium Sulfate as an Alternative Cause of Hot Corrosion	697
..... M. B. Krisak, B. I. Bentley, A. W. Phelps, T. C. Radsick	
Reacting Unsteady Reynolds-Averaged Navier–Stokes with the Tabulated Premixed Conditional Moment Closure Method	704
..... C. A. Velez, S. M. Martin, S. S. Vasu	
Combustion Instability Suppression in Gaseous Oxygen/Hydrogen Combustors Using Methane Dilution	719
..... Q. Diao, A. Ghosh, K. H. Yu	
Novel Gas Turbine Fault Diagnosis Method Based on Performance Deviation Model	730
..... Z. Li, S.-S. Zhong, L. Lin	

Table of Contents continued on back cover



CONTENTS—continued

Performance Robustness of Turbine Squealer Tip Designs Due to Manufacturing and Engine Operation C. De Maesschalck, C. Lacor, G. Paniagua, S. Lavagnoli, A. Remiot, L. Bricteux 740

Combustor Dilution Hole Placement and Its Effect on the Turbine Inlet Flowfield M. Leonetti, S. Lynch, J. O'Connor, S. Bradshaw 750

Disturbance-Field Decomposition in a Transversely Forced Swirl Flow and Flame J. O'Connor 764

Rate-Controlled Constrained Equilibrium for Nozzle and Shock Flows J. Rabinovitch and G. Blanquart 776

LILY

刊碼: N54-0023A

雜誌名稱: Journal of propulsion and power

ISSN:0748-4658 年代:2017 刊別:BM

VOL. V.33 NO.3

架號: