

- Astronautics and Aeronautics*, edited by J. N. Moss and C. D. Scott, AIAA, NY, Vol. 103, 1986, pp. 478-513.
- [10] C. Park, Assessment of Two-Temperature Kinetic Model for Dissociating and Weakly-Ionizing Nitrogen. *AIAA, Paper 86-1347*, 1986.
- [11] C. Park, Calculation of Nonequilibrium Radiation in the Flight Regimes of Aeroassisted Orbital Transfer Vehicles, Thermal Design of Aeroassisted Orbital Transfer Vehicles: *Progress in Astronautics and Aeronautics*, edited by H. F. Nelson, AIAA, NY, Vol. 96, 1985, pp. 395-418.
- [12] C. Park, Nonequilibrium Air Radiation (NEQAIR) Program: User's Manual, *NASA, TM 86707*, 1985.
- [13] R. A. Allen, J. C. Camm, and J. C. Keck, Radiation from Hot Nitrogen, Research Report 102, *AVCO-Everett Research Laboratory*, Everett, MA, 1961.
- [14] R. A. Allen, J. C. Keck, J. C. Camm, Nonequilibrium Radiation from Shock Heated Nitrogen and a Determination of the Recombination Rate, Research Report 110, *AVCO-Everett Research Laboratory*, Everett, MA, 1961.
- [15] R. A. Allen, Nonequilibrium Shock Front Rotational, Vibrational, and Electronic Temperature Measurements. Research Report 186, *AVCO-Everett Research Laboratory*, Everett, MA, 1964.
- [16] B. Van Leer, Flux-Vector Splitting for the Euler Equations, *Lecture Notes in Physics*. Springer Verlag, Berlin, Vol. 170, 1982, pp. 507-512.
- [17] C. Hirsch, *Numerical Computation of Internal and External Flows – Computational Methods for Inviscid and Viscous Flows*, John Wiley & Sons Ltd, 691p, 1990.
- [18] E. S. G. Maciel, Analysis of Convergence Acceleration Techniques Used in Unstructured Algorithms in the Solution of Aeronautical Problems – Part I, *Proceedings of the XVIII International Congress of Mechanical Engineering (XVIII COBEM)*, Ouro Preto, MG, Brazil, 2005. [CD-ROM]
- [19] E. S. G. Maciel, Analysis of Convergence Acceleration Techniques Used in Unstructured Algorithms in the Solution of Aerospace Problems – Part II, *Proceedings of the XII Brazilian Congress of Thermal Engineering and Sciences (XII ENCIT)*, Belo Horizonte, MG, Brazil, 2008. [CD-ROM]
- [20] E. S. G. Maciel and A. P. Pimenta, Thermochemical Non-Equilibrium Reentry Flows in Two-Dimensions – Part I, *WSEAS Transactions on Mathematics*, Vol. 11, June, Issue 6, 2012, pp. 520-545.
- [21] S. K. Saxena and M. T. Nair, An Improved Roe Scheme for Real Gas Flow, *AIAA Paper 2005-587*, 2005.
- [22] E. S. G. Maciel, Relatório ao CNPq (Conselho Nacional de Desenvolvimento Científico e Tecnológico) sobre as atividades de pesquisa realizadas no período de 01/07/2008 até 30/06/2009 com relação ao projeto PDJ número 150143/2008-7, Report, *National Council of Scientific and Technological Development (CNPq)*, São José dos Campos, SP, Brazil, 102p, 2009. [available in the website www.edissonsavio.eng.br]
- [23] E. S. G. Maciel and A. P. Pimenta, Reentry Flows in Chemical Non-Equilibrium in Two-Dimensions, *Proceedings of the 10th International Symposium on Combustion and Energy Utilisation (ICCEU 2010)*, Mugla, Turkey, 2010.
- [24] C. Park, Assessment of Two-Temperature Kinetic Model for Ionizing Air, *Journal of Thermophysics and Heat Transfer*, Vol. 3, No. 13, 1989, pp. 233-244.
- [25] D. Ait-Ali-Yahia, W. G. Habashi, Finite Element Adaptive Method for Hypersonic Thermochemical Nonequilibrium Flows, *AIAA Journal*, Vol. 35, No. 8, 1997, pp. 1294-1302.
- [26] E. S. G. Maciel, Relatório ao CNPq (Conselho Nacional de Desenvolvimento Científico e Tecnológico) sobre as atividades de pesquisa realizadas no período de 01/07/2009 até 31/12/2009 com relação ao projeto PDJ número 150143/2008-7, Report, *National Council of Scientific and Technological Development (CNPq)* São José dos Campos, SP, Brazil, 102p, 2009. [available in the website www.edissonsavio.eng.br]
- [27] L. Landau and E. Teller, Theory of Sound Dispersion, *Physikalische Zeitschrift Der Sowjetunion*, Vol. 10, 1936, pp. 34-43.
- [28] L. N. Long, M. M. S. Khan, H. T. Sharp, Massively Parallel Three-Dimensional Euler / Navier-Stokes Method, *AIAA Journal*, Vol. 29, No. 5, 1991, pp. 657-666.
- [29] R. W. Fox, A. T. McDon-ald, *Introdução à Mecânica dos Fluidos*, Guanabara Editor, 1988.
- [30] E. S. G. Maciel, Relatório ao CNPq (Conselho Nacional de Desenvolvimento Científico e Tecnológico) sobre as atividades de pesquisa realizadas no período de 01/10/2011 até 30/09/2012 com relação ao projeto DTI-1, número 384681/2011-5, Report *National*

