

Modelling of ionisation reactions and of the resulting electric fields in one-dimensional hypersonic shock waves with the direct simulation Monte Carlo method

Imperial College of Science Technology & Medicine, Dept. of Aeronautics - Ionization Potential

Description: -

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Prepaid legal services -- Taxation -- United States.
Tax exemption -- United States.
Employee fringe benefits -- Taxation -- United States.
Colón, Cristóbal, -- 1451-1506.
Russia -- Economic policy -- 1976-
Industrial laws and legislation -- Russia.
Kommunisticheskaiā partiā Sovetskogo Soiuza.
Tariff -- Law and legislation -- Taiwan.
Commercial products -- Taiwan -- Classification.
Monte Carlo method
Ionization
Hypersonic shockModelling of ionisation reactions and of the resulting electric fields in one-dimensional hypersonic shock waves with the direct simulation Monte Carlo method

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Imperial College of Science Technology & Medicine. Dept. of Aeronautics. I.C. aero report -- 92-01 Modelling of ionisation reactions and of the resulting electric fields in one-dimensional hypersonic shock waves with the direct simulation Monte Carlo method

Notes: Includes bibliographical references: p. 7-8.
This edition was published in 1992



Filesize: 36.68 MB

Tags: #Catalog #of #DTIC #Reports # (Sorted #by #Title): #Page #6 #of #80

Ionization

Developed path integral formalism can be directly extended on systems of many identical Newton—Wigner particles, which interact with external field and each other.

Algorithms and computational methods

The presence of this mode is entirely determined by the presence of the charge-exchange process. The quark spin is calculated from the anomalous Ward identity where the axial form factor can be obtained from the pseudo-scalar form factor and the local topological charge operator.

Shock layers and boundary layers in hypersonic flows

The loss of plasma species and heat due to convection by the transverse gas flow is accounted for by using a characteristic frequency of convective cooling, which depends on the gliding arc radius, the relative velocity of the gas flow with respect to the arc and on the arc elongation rate. We will apply this model in the case of Fe and W. Adams Division of Mathematical Sciences, Nanyang Technological University, Singapore 637371 Recent results from our ongoing investigations of staggered Wilson fermions are presented.

Journal of Physics: Conference Series, Volume 653, 2015

We show some typical models. QSPR modeling and first-principles ab initio DFT and wavefunction based computations for the design of materials with specific electronic and physical properties. The governing equation is obtained using the virtual work principle for a general material response

and presented in terms of generalized displacement variables and generalized moments over the cross-section of the 3-D structure.

Richard F. Barry Jr. Seminar Series

In each case the results from the numerical method were in excellent agreement with experiment. A brief description of some of the major codes being used at NASA Langley Research Center for hypersonic continuum and rarefied flows is provided, along with their capabilities and deficiencies.

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