

**XXIII Congresso Nacional
de Matemática Aplicada e
Computacional – CNMAC**

Resumo das
Comunicações

**11 a 15 de setembro de 2000
Santos - SP**

F977/07

E KIRCHHOFF-LOVE PARA PLACAS

niwiacowsky - UFRGS

Claeyssen - UFRGS

a análise vibratória livre de placas do tipo os simbolicamente através de uma formulação e uma base espectral clássica ou de uma base metodologia introduzida por Navier e por Lévy. Parâmetros de frequência precisos, assim como de razões de aspecto ($a/b=2/5, 2/3, 1, 3/2$ e $3/5$) para materiais isotrópicos as frequências naturais razão de Poisson. Devido à simetria geométrica os modos podem ser separados em simétrico e anti-simétrico e a análise é feita com facilidade computacional.

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A Discrete-Ordinates Solution for the Temperature-Jump Problem in Rarefied-Gas Dynamics

L. B. Barichello[†] and A. C. R. Bartz[†]

[†] PPGMAP, Universidade Federal do Rio Grande do Sul, 91509-900 Porto Alegre, RS

A recently developed analytical version[1] of the discrete-ordinates method[2] is used to solve the temperature-jump problem based on the Bhatnagar, Gross and Krook model[3] in rarefied-gas dynamics. This version, that has been also applied to solve most of the classical BGK problems relevant to plane-parallel media[4], is based on the use of a "half-range" quadrature scheme which results for most of the cases in (what we call) simplified eigenvalue problems. In addition to a complete development of the discrete-ordinates method for the application considered, numerical results are presented, for the temperature jump coefficient and the temperature and density distributions in the gas[5], to show that the solution is specially accurate and easy to implement. The variable collision frequency case is also investigated.

References

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