

ANNOUNCEMENT

SYMPOSIUM ON COMPUTATIONAL TECHNOLOGY FOR FLIGHT VEHICLES

SHERATON NATIONAL HOTEL, WASHINGTON DC, U.S.A.

5-7 NOVEMBER, 1990

The George Washington University and NASA are organizing a Symposium on computational Technology for Flight Vehicles. The emphasis in this symposium will be on computational structures, fluid dynamics and controls technology, interaction problems, and techniques that are applicable to the three areas. Papers are invited on the following subjects:

- mechanistic base for constitutive relations
- reacting and non-equilibrium thermodynamics
- simulation and modelling of transition and turbulence
- computational strategies and numerical algorithms for multiprocessor and other advanced computers
- advances in discretization techniques for structural and fluid problems
- adaptive and hybrid methods (e.g., spectral element methods, hybrid experimental-numerical techniques)
- stochastic modelling techniques
- mesh and model generation
- multidisciplinary (structure/control/aerodynamics) and multilevel optimization techniques
- configuration aerodynamics
- failure analysis and damage tolerance concepts of structures made of new materials

- three-dimensional Navier-Stokes calculations for separated flows
- high-speed incompressible and highly-rotational internal flows
- engine-airframe integration
- experimental validation of structures, controls and computational fluid dynamic analysis
- advanced visualization techniques
- multibody dynamics
- real time simulation of dynamic and control systems
- advances in system identification techniques

Authors should submit five copies of an extended abstract of about 1,000 words including sample figures prior to 20 October, 1989. Notification of acceptance will be given by 30 November, 1989. Five copies of the final manuscript, complete with original drawings or glossy prints will be due by 20 April, 1990. A volume of proceedings will be published before the meeting.

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