

CONTENTS

VOLUME 66 ISSUE No. 6

30 June 2011

A numerical investigation of side-loads resulting from rigid body motions of an overexpanded engine nozzle: E. Lefrançois . . . . .	671
Thermal instability of a boundary layer subjected to external electric and magnetic fields: C.-T. Chen . . . . .	690
Numerical analysis on longitudinal location optimization of vortex generator in compact heat exchangers: M. Gorji, H. Mirgolbabaei, A. Barari, G. Domairry and N. Nadim . . . . .	705
Kernel-based vector field reconstruction in computational fluid dynamic models: L. Bonaventura, A. Iske and E. Miglio . . . . .	714
Weak coupling of a Reynolds model and a Stokes model for hydrodynamic lubrication: B. Nilsson and P. Hansbo . . . . .	730
Enhanced multi-objective optimization of a dimpled channel through evolutionary algorithms and multiple surrogate methods: A. Husain, K.-D. Lee and K.-Y. Kim . . . . .	742
A $\gamma$ -DBGK scheme for compressible multi-fluids: G. Ni and W. Sun . . . . .	760
A highly automated parallel Chimera method for overset grids based on the implicit hole cutting technique: B. Landmann and M. Montagnac . . . . .	778



Discover papers in this journal online,  
ahead of the print issue, through EarlyView® at  
[wileyonlinelibrary.com/journal/nmf](http://wileyonlinelibrary.com/journal/nmf)

Indexed or abstracted by ASFA: Aquatic Sciences & Fisheries Abstracts (CSA/CIGI); Cambridge Scientific Abstracts (CSA/CIGI); Chemical Abstracts Service/SciFinder (ACS); COMPENDEX (Elsevier); CompuMath Citation Index® (Thomson ISI); CSA Technology Research Database (CSA/CIGI); Current Contents/Engineering, Computing & Technology (Thomson ISI); FLUIDEX/Fluid Abstracts (Elsevier); INSPEC (IET); International Aeronautical Abstracts & Database (CSA/CIGI); International Civil Engineering Abstracts (Emerald); Journal Citation Reports/Science Edition (Thomson ISI); Mathematical Reviews/MathSciNet/Current Mathematical Publications (AMS); Meteorological & Geostrophical Abstracts (CSA/CIGI); PASCAL Database (INIST/CNRS); Science Citation Index Expanded® (Thomson ISI); Science Citation Index® (Thomson ISI); SCOPUS (Elsevier); Shock & Vibration Digest (Sage); Web of Science® (Thomson ISI); Zentralblatt MATH/Mathematics Abstracts (FIZ Karlsruhe).