23.	H. OKAMOTO "Boundary element method for chemical reaction system in convective diffusion"	990
24.	M. SAKAKIHARA and M. IKEUCHI "Characteristics integration method for one- dimensional initial value problems of the convective diffusion equation"	1002
25.	A.N. STOKES and M.G. BARTON "Computing shear dispersion in parallel flow"	1010
	PART 11	
SE	CTION 6 TURBULENT HEAT TRANS	FER
1.	H. IACOVIDES and B.E. LAUNDER "ASM predictions of turbulent momentum and heat transfer in coils and U-bends"	1023
2.	B. SUNDÉN "On some accuracy aspects in numerical solution of flow and heat transfer problems"	1046
3.	E. SAATDJIAN, B. ROWE, R. PRUD'HOMME and F. VALLÉE "Numerical simulation and numerical experiments of a rarified, high temperature Argon plasma inside a constant temperature cylindrical tube"	1058
4.	A.A. EL-HADIK, M.M. MAHGOB and M.A. SHALABY "A study of heat and fluid flow in cusped ducts in laminar case"	1069
5.	M.H. BERGER "Practical finite element computations of multidimensional source/sink flows in a gas centrifuge"	1089
6.	Zs. RÉVÉSZ "An approach to the numerical modelling of the shell side fluid flow in a steam condensor"	1102
7.	J.A. SCHMITT "Multidimensional flows inside a tube behind an accelerating piston"	1115
8.	J. VLACHOPOULOS, C. TZOGANAKIS and E. HAMIELEC "Numerical simulation of reactive polymer flows"	1127

9.	Th. H. VAN DER MEER "On the numerical calculation of stagnation point heat transfer using the k- ϵ model of turbulence"	1138
10.	Y. GEYER, A. APELBLAT and E. BAR-ZIV "Reacting turbulent flows produced by two concentric tubes of finite wall thickness"	1147
11.	T.S. LEE "Distorted false transient approach to steady state problems in fluid mechanics and heat transfer"	1157
SE	CTION 7 INTERACTIVE FLOW	
1.	L.A. FRASER and P.W. CARPENTER "A numerical investigation of hydroelastic and hydrodynamic instabilities in laminar flows over compliant surface comprising one or two layers of viscoelastic material"	1171
2.	P.G. PATTANI and M.D. OLSON "Stability of non linear solutions of rigid body - viscous flow interaction"	1182
3.	J.I. RAMOS "Multicomponent gas bubble dynamics in glass melts"	1194
4.	H.A. KHATER "A coupled fuel rod thermal analysis/channel non-equilibrium two phase flow model"	1206
5.	I.R. ELLUL, R.I. ISSA and M.K. LOONEY "Numerical computation of multi-dimensional multiphase flow"	1218
6.	M.A. KHALIFA and C. DALTON "Breaking waves at the interface of two slightly viscous fluids"	1232
7.	A.A. LAKIS "Prediction of shell response and wall pressure fluctuations in turbulent single and two-phase flows"	1244

8.	J.C. FERRARI and G.M. GRANDI "Models for the study of local effects produced by a high-level radioactive waste repository"	1256
9.	M. MILLERET, D. HOUI and B. LE GUENNEC "Numerical and experimental study of capturé mechanics of particles on a series of parallel cylinders"	1268
10.	M. RAHMAN "Approximating non-linear waves forces on square caissons"	1280
11.	Y. GONG "Incremental and iterative methods for solving fluid/structure interaction problems"	1292
SEC	CTION 8 FREE SURFACE FLOW	
1.	G.A. KERAMIDAS and O.M. GRIFFIN "Numerical simulation of wave flow in a convergent channel"	1303
2.	I.P.E. KINMARK and W.G. GRAY "A generalized wave equation formulation of tidal circulation"	1312
3.	M.S. ENGLEMAN and R.L. SANI "Finite element simulation of temperature dependent free surface flows"	1325
4.	N.E. BIXLER and R.E. BENNER "Finite element analysis of axisymmetric oscillations of sessile liquid drops"	1336
5.	B. SCHAEFFER "A Lagrangian solid element method for large amplitude movement of a compressible fluid with a free surface"	1348
6.	V. CASULLI, G. PONRELLI and P. SECCHI "An Eulerian-Lagrangian method for open channel flows"	1360
7.	P. PRINOS and R.D. TOWNSEND "Numerical modelling of turbulent flow in compound open channels"	1371

8.	A-S. CHENG "Finite element approximation in variational formulation for solving the unsteady Reynolds equation of marine current"	1385
9.	S.M. RASANEN and E-M. SALONEN "A u,v formulation for free surface flow"	1393
10.	R. KEUNINGS "Numerical simulation of moving boundary problems involving highly elastic fluids"	1402
11.	E. MITSOULIS "Melt flow in polymer processing using finite elements"	1413
SE	CTION 9 COMBUSTION AND	
	COMPRESSIBLE FLOW	
1.	A.C. BUCKINGHAM "Compressible two phase flow instabilities simulated with a hybrid Lagrange-Euler pseudospectral method"	1427
2.	M.C. MARKATOS and P. SHAH "Turbulence modelling in internal combustion engines"	1439
3.	K. KNOWLES and P.W. CARPENTER "A study of the time-dependent method for calculating transonic flows in convergent nozzles"	1455
4.	J.M. JONES, G.H. JIRKA and D.A. CAUGHEY "A numerical method for steady, two dimensional transonic flows"	1465
5.	L.G. MARGOLIN "Gradient scaling for non-uniform meshes"	1477
6.	A. AMENDOLA, C. DE NICOLA, V. LOSITO and D. VITIELLO "A numerical model for turbulent separated flows past airfoils"	1489
7.	C-Y. GU and L. FUCHS "Numerical computation of transonic airfoil	1513

8.	M.A. FRY and S. EIDELMAN "Shock and structure interaction in three dimensional flow"	1513
9.	M.M.M. ABOU-ELLAIL "Prediction of irregular axisymmetric combusted aerodynamics and convective heat transfer"	1519
10.	J.J. PYUN, J.S. SALTZMAN, A.J. SCANNAPIECO and D. CARROLL "An adaptive rezonerin a two-dimensional Lagrangian hydrodynamic code"	1531
11.	A.H.A. KARAMALLA "A study of the combined effect of some internal ballistic parameters on the pressure behaviour of solid propellant rocket motor"	1544
12.	G. CHIATTI and R. RUSCITTI "Simulation of unsteady phenomena in gasoline engine intake systems"	1553
13.	C. CAREY, S.M. FRASER and G. WILSON "Experimental assessment of a CAD method for mixed-flow pumps"	1563
14.	A.L. CHANDRAKER "A numerical method for the computation of profile loss of turbine blades"	1575
15.	D.H. PELLETIER "A turbulence model for finite element simulation of 3-D turbulent flows near propellers and windmills"	1586
16.	F. THIELE and E. ELSHOLZ "An inverse method for compressible boundary layer flows"	1599

SECTION 10 BOUNDARY LAYERS

1.	P.W. CARPENTER and P.J. MORRIS "The hydrodynamic stability of flows over non-isotropic compliant surfaces - numerical solution of the differential eigenvalue problem"	1613
2.	V. ESPERT, E. CABRERA and I. MARTINEZ "Finite element algorithm for calculating wind distribution in three-dimensional atmospheric boundary layer"	1621
3.	R. ABID, J. DELERY and R. SCHMITT "An examination of turbulence models for a separating three dimensional turbulent boundary layer"	1635
4.	A.N. MENENDEZ and B.R. RAMAPRIAN "Wall functions for unsteady turbulent boundary layers"	1647
5.	F. MARTELLI and G. BINDINI "Compressible boundary layer calculation by finite element mixed approach"	1659

SECTION 11 BOUNDARY GRIDDING TECHNIQUES AND METEOROLOGY

١.	"A two-level finite element model of the general recirculation"	16/3
2.	J.Y. CANEILL, A. HAUGEL, R. DE LA BASTIDE and D. SOUFFLAND "Numerical simulation of atmospheric flows over complex terrain"	1687
3.	G. BERGELES "Numerical calculation of turbulent flow around 2D hills using orthogonal curvilinear coordinate grid"	1699

4.	D.A. KOUREMENOS and K.A. ANTONOPOULOS "Numerical determination of relative humidity and dry bulb temperature in Greece from meteorological observations"	1709
5.	J. HAUSER, H.G. PAAP and D. EPPEL "Boundary conformed coordinate systems for fluid flow problems"	1721
6.	K. UMEGAKI and S. UCHIKAWA "Numerical simulation of two dimensional incompressible viscous flow driven by rotating boundaries using boundary fitted coordinate system"	1735
7.	T. THEODOROPOULOS, G. BERGELES and N. ATHANASSIADIS "Orthogonal grid generation in two dimensional space"	1747
SEC	CTION 12 NUMERICAL AND MATHEMAT	ICAL
	CONCEPTS	
1.	W.F. BLYTH "Walsh series solution of time evaluation problems"	1761
2.	R. KEUNING "Mesh refinement analysis of the flow of a Maxwell fluid through an abrupt contraction"	1763
3.	M. ROBICHAUD and P. TANGUY "Incomplete factorization in 3-D incompressible fluid flow problems"	1773
4.	Q. RONG "Spline weighted residual method for viscous flow problems"	1784
5.	L. KAITAI, M. ZHEN and Z. CHENGDIAN "The approximation of branch solution of the Navier Stokes equations"	1801
6.		1812

7.	R. YADAV "Analysis of flow through volute casings of centrifugal machines by a singularity method"	1821
8.	G.U. LEUINA and Y.A. BEREZIN "Numerical study of a secondary convective motion at oscillating external forces"	1833