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Contents

No. 1 8 January 2009

Frictionless multiple impacts in multibody systems. II. Numerical algorithm and simulation results	
By C. Liu, Z. Zhao & B. Brogliato	1
The micropolar elasticity constants of circular cell honeycombs	
By J. Chung & A. M. Waas	25
The bandcount increment scenario. III. Deformed structures	
By V. Avrutin, B. Eckstein & M. Schanz	41
Monogamy of non-local quantum correlations	
By B. Toner	59
Theory of quantum arrival and spatial wave function collapse on the appearance of particle	
By E. A. Galapon	71
On the surface plasmon polariton wave at the planar interface of a metal and a chiral sculptured thin film	
By J. A. Polo Jr & A. Lakhtakia	87
Solitary waves on a free surface of a heated Maxwell fluid	
By D. Comissiong, R. A. Kraenkel & M. A. Manna	109
Surface wrinkling of a channelized flow	
By A. C. Slim, N. J. Balmforth, R. V. Craster & J. C. Miller	123
The interactions between shear bands and rigid lamellar inclusions in a ductile metal matrix	
By F. Dal Corso & D. Bigoni	143
A note on the unsteady motion under gravity of a corner point on a free surface: a generalization of Stokes' theory	
By D. J. Needham & J. Billingham	165
Time dependence of groundwater pumping from a well near a river	
By S. G. Llewellyn Smith & A. M. J. Davis	175
On the use of cellular automata algorithm for the atomic-based simulation of carbon nanotubes	
By X. Q. He & X. H. Huang	193
Global stability for thermal convection in a fluid overlying a highly porous material	
By A. A. Hill & B. Straughan	207
Curvature in conformal mappings of two-dimensional lattices and foam structure	
By A. Mughal & D. Weaire	219
Elastic waves in Timoshenko beams: the 'lost and found' of an eigenmode	
By A. Bhaskar	239
On the direct determination of the eigenmodes of finite flow-structure systems	
By M. W. Pitman & A. D. Lucey	257
Frequency locking in an injection-locked frequency divider equation	
By M. V. Bartuccelli, J. H. B. Deane & G. Gentile	283

A continuum description of nonlinear elasticity, slip and twinning, with application to sapphire By J. D. Clayton	307
No. 2 8 February 2009	
Biotemplated syntheses of anisotropic nanoparticles By S. R. Hall	335
Minimization variational principles for acoustics, elastodynamics and electromagnetism in lossy inhomogeneous bodies at fixed frequency By G. W. Milton, P. Seppecher & G. Bouchitté	367
Large-eddy simulation of the plume generated by the fire at the Buncefield oil depot in December 2005 By B. J. Devenish & J. M. Edwards	397
Multiple steady bubbles in a Hele-Shaw cell By D. Crowdy	421
Point vortex equilibria on the sphere via Brownian ratchets By P. K. Newton & T. Sakajo	437
Geodesic flows on semidirect-product Lie groups: geometry of singular measure-valued solutions By D. D. Holm & C. Tronci	457
Snub polyhedra and organic growth By M. S. Longuet-Higgins	477
On a class of non-dissipative materials that are not hyperelastic By K. R. Rajagopal & A. R. Srinivasa	493
Steady electro-osmotic flow of a micropolar fluid in a microchannel By A. A. Siddiqui & A. Lakhtakia	501
The mathematical structure of multiphase thermal models of flow in porous media By D. E. A. van Odyck, J. B. Bell, F. Monmont & N. Nikiforakis	523
On the mechanics of the golf swing By R. S. Sharp	551
On a certain stability of the Hermite–Hadamard inequality By A. Hány & Z. Páles	571
On the complete integrability and linearization of nonlinear ordinary differential equations. III. Coupled first-order equations By V. K. Chandrasekar, M. Senthilvelan & M. Lakshmanan	585
On the complete integrability and linearization of nonlinear ordinary differential equations. IV. Coupled second-order equations By V. K. Chandrasekar, M. Senthilvelan & M. Lakshmanan	609
Closed timelike curves make quantum and classical computing equivalent By S. Aaronson & J. Watrous	631
Overcoming the order barrier in the numerical approximation of stochastic partial differential equations with additive space–time noise By A. Jentzen & P. E. Kloeden	649

No. 3 8 March 2009

Including dispersion interactions in the ONETEP program for linear-scaling density functional theory calculations	
By Q. Hill & C.-K. Skylaris	669
Reticulated tubes: effective elastic properties and actuation response	
By S. P. Mai & N. A. Fleck	685
Boundary-induced electrophoresis of uncharged conducting particles: remote wall approximations	
By E. Yariv	709
Energy of tsunami waves generated by bottom motion	
By D. Dutykh & F. Dias	725
Clustering in a network of non-identical and mutually interacting agents	
By F. De Smet & D. Aeyels	745
Symmetrical Taylor impact studies of copper	
By L. C. Forde, W. G. Proud & S. M. Walley	769
Thermally induced pulsatile motion of solids	
By J. G. A. Croll	791
On magnetic fields generated in a dielectric half-space by a slowly moving point charge outside	
By G. Barton	809
Impacts on thin elastic sheets	
By R. Vermorel, N. Vandenberghe & E. Villermaux	823
A micropolar theory for the finite elasticity of open-cell cellular solids	
By P. Hård af Segerstad, S. Toll & R. Larsson	843
On dissolution and reassembly of filamentary reinforcing networks in hyperelastic materials	
By H. Demirkoparan, T. J. Pence & A. Wineman	867
Time-periodic solutions to a nonlinear wave equation with periodic or anti-periodic boundary conditions	
By S. Ji	895
A constant shear stress core flow model of the bidirectional vortex	
By B. A. Maicke & J. Majdalani	915
A semi-analytical model for oblique impacts of elastoplastic spheres	
By C.-Y. Wu, C. Thornton & L.-Y. Li	937
The effect of preload on the pull-off force in indentation tests of microfibre arrays	
By R. Long & C.-Y. Hui	961
A multivariate distribution for sub-images	
By S. J. Maybank	983

No. 4 8 April 2009

Structural models of bioactive glasses from molecular dynamics simulations	
By A. Tilocca	1003
Deterministic–stochastic approach to compartment fire modelling	
By V. Bertola & E. Cafaro	1029

Geometry- and velocity-constrained cohesive zones and mixed-mode fracture/adhesion energy of interfaces with periodic cohesive interactions	
By B. Chen, P. Wu & H. Gao	1043
Lateral excitation of bridges by balancing pedestrians	
By J. H. G. Macdonald	1055
A new integral property of inertial waves in rotating fluid spheres	
By X. Liao & K. Zhang	1075
Solitons: complex networks of interacting fields	
By I. Kaminer, M. Segev, A. M. Bruckstein & Y. C. Eldar	1093
Informed traders	
By D. C. Brody, M. H. A. Davis, R. L. Friedman & L. P. Hughston	1103
On feasible regions of lamination parameters for lay-up optimization of laminated composites	
By M. W. Bloomfield, C. G. Diaconu & P. M. Weaver	1123
Predicting crystal growth by spiral motion	
By R. C. Snyder & M. F. Doherty	1145
In the light of time	
By P. Tuisku, T. K. Pernu & A. Annala	1173
Beam equations for multi-walled carbon nanotubes derived from Flügge shell theory	
By T. Usuki & K. Yogo	1199
Disambiguating the SI notation would guarantee its correct parsing	
By M. P. Foster	1227
Analytical determination of parabolic points on slowness surface and swallowtail points on wave surface of cubic crystals	
By L. Wang	1231
Scattering of anti-plane shear waves by an interface crack between two bonded dissimilar functionally graded piezoelectric materials	
By B. M. Singh, J. Rokne, R. S. Dhaliwal & J. Vrbik	1249
Mixing in internally stirred flows	
By P. N. Shankar & R. Kidambi	1271
A novel generalization of Clifford's classical point-circle configuration. Geometric interpretation of the quaternionic discrete Schwarzian Kadomtsev-Petviashvili equation	
By W. K. Schief & B. G. Konopelchenko	1291
A thermoelastic junction problem in a thin-walled structure: asymptotic analysis	
By V. V. Zalipaev, I. S. Jones & A. B. Movchan	1309
Vibration analysis of submerged rectangular microplates with distributed mass loading	
By Z. Wu, X. Ma, P. N. Brett & J. Xu	1323

No. 5 8 May 2009

A new phase-field model for strongly anisotropic systems	
By S. Torabi, J. Lowengrub, A. Voigt & S. Wise	1337
Strain-induced polarization in non-ideal chiral nematic elastomers	
By J. S. Biggins	1361
Some topics on a new class of elastic bodies	
By R. Bustamante	1377

Independent component analysis: Jacobi-like diagonalization of optimized composite-order cumulants	
By S. Abrar & A. K. Nandi	1393
Temporally unstructured quantum computation	
By D. Shepherd & M. J. Bremner	1413
On solutions to the non-Abelian Hirota–Miwa equation and its continuum limits	
By C. X. Li, J. J. C. Nimmo & K. M. Tamizhmani	1441
Computational complexity with experiments as oracles. II. Upper bounds	
By E. Beggs, J. F. Costa, B. Loff & J. V. Tucker	1453
Cylinder loading in transient motion representing flow under a wave group	
By T. Stallard, P. H. Taylor, C. H. K. Williamson & A. G. L. Borthwick	1467
Existence and spectral properties of shear horizontal surface acoustic waves in vertically periodic half-spaces	
By A. L. Shuvalov, O. Poncelet & S. V. Golkin	1489
Linear dynamics of elastic helical springs: asymptotic analysis of wave propagation	
By S. V. Sorokin	1513
Pursuit and an evolutionary game	
By E. Wei, E. W. Justh & P. S. Krishnaprasad	1539
A pseudo-dynamical systems approach to a class of inverse problems in engineering	
By B. Banerjee, D. Roy & R. M. Vasu	1561
Switching criteria for hybrid rarefied gas flow solvers	
By D. A. Lockerby, J. M. Reese & H. Struchtrup	1581
Dynamo action in the presence of an imposed magnetic field	
By D. W. Hughes & M. R. E. Proctor	1599
An asymptotic model for the formation and evolution of air gaps in vertical continuous casting	
By M. Vynnycky	1617
Asymmetric quantum codes: constructions, bounds and performance	
By P. K. Sarvepalli, A. Klappenecker & M. Rötteler	1645

No. 6 8 June 2009

Non-traditional ligands in f-block chemistry	
By S. T. Liddle	1673
Many-body effects and simulations of potassium channels	
By C. J. Illingworth & C. Domene	1701
The far-field sound from rough-wall boundary layers	
By S. Glegg & W. Devenport	1717
Relaxation of a class of variational models in crystal plasticity	
By S. Conti, G. Dolzmann & C. Klust	1735
On uniqueness in the problem of gravity–capillary water waves above submerged bodies	
By O. V. Motygin & P. McIver	1743
Finsler geometry of seismic ray path in anisotropic media	
By T. Yajima & H. Nagahama	1763

The fracture behaviour of functionally graded piezoelectric materials containing collinear dielectric cracks	
By Z. Yan, L. Jiang & J. R. Dryden	1779
Deformation of metallic liquid drop by electric field for contacts in molecular–organic electronics	
By M. Bag, D. Gupta, N. Arun & K. S. Narayan	1799
Dynamics of subglacial floods	
By A. C. Fowler	1809
Partial cation-order and early-stage, phase separation in phase W, $\text{Li}_x\text{Co}_{1-x}\text{O}$: $0.075 \leq x \leq 0.24$ – 0.31	
By Y. Wu, D. Pasero, E. E. McCabe, Y. Matsushima & A. R. West	1829
An improved free surface capturing method based on Cartesian cut cell mesh for water-entry and -exit problems	
By W. Wang & Y. Wang	1843
Time distributed-order diffusion-wave equation. I. Volterra-type equation	
By T. M. Atanackovic, S. Pilipovic & D. Zorica	1869
Time distributed-order diffusion-wave equation. II. Applications of Laplace and Fourier transformations	
By T. M. Atanackovic, S. Pilipovic & D. Zorica	1893
Assessing the performance of rational spline-based empirical mode decomposition using a global annual precipitation dataset	
By M. C. Peel, T. A. McMahon & G. G. S. Pegram	1919
Boundary-induced electrophoresis of uncharged conducting particles: near-contact approximation	
By M. Abu Hamed & E. Yariv	1939
A radial basis function method for the shallow water equations on a sphere	
By N. Flyer & G. B. Wright	1949
Rheological response and dynamics of the amphiphilic diamond phase from kinetic lattice–Boltzmann simulations	
By R. S. Saksena & P. V. Coveney	1977

No. 7 8 July 2009

Non-axisymmetric instabilities in magnetic spherical Couette flow	
By R. Hollerbach	2003
A geometric interpretation of coherent structures in Navier–Stokes flows	
By I. Roulstone, B. Banos, J. D. Gibbon & V. N. Roubtsov	2015
The geometry of modified Riemannian extensions	
By E. Calviño-Louzao, E. García-Río, P. Gilkey & R. Vázquez-Lorenzo	2023
Charge-density waves at intermediate coupling	
By D. W. Buker	2041
Elastic waves guided by a welded joint in a plate	
By Z. Fan & M. J. S. Lowe	2053
An inversion technique for the retrieval of single-point emissions from atmospheric concentration measurements	
By M. Sharan, J.-P. Issartel, S. K. Singh & P. Kumar	2069

Oscillating flames: multiple-scale analysis	
By L. Bauwens, C. R. L. Bauwens & I. Wierzb	2089
Stability in distribution of mild solutions to stochastic partial differential delay equations with jumps	
By J. Bao, A. Truman & C. Yuan	2111
Numerical simulation of detonation structures using a thermodynamically consistent and fully conservative reactive flow model for multi-component computations	
By G. Cael, H. D. Ng, K. R. Bates, N. Nikiforakis & M. Short	2135
The physical character of information	
By M. Karnani, K. Pääkkönen & A. Annala	2155
Generalized Hooke's law for isotropic second gradient materials	
By F. dell'Isola, G. Sciarra & S. Vidoli	2177
The first-digit frequencies of prime numbers and Riemann zeta zeros	
By B. Luque & L. Lacasa	2197
A simplified formulation of adhesion problems with elastic plates	
By C. Majidi & G. G. Adams	2217
Adhesive contact of elastic spheres revisited: numerical models and scaling	
By H. Radhakrishnan & S. D. Mesarovic	2231
Secondary structures in a one-dimensional complex Ginzburg–Landau equation with homogeneous boundary conditions	
By L. Nana, A. B. Ezersky & I. Mutabazi	2251
Planar dynamics of a rigid body system with frictional impacts. II. Qualitative analysis and numerical simulations	
By Z. Zhao, C. Liu & B. Brogliato	2267
The elastochrone: the descent time of a sphere on a flexible beam	
By J. M. Aristoff, C. Clanet & J. W. M. Bush	2293

No. 8 8 August 2009

Conventions for writing the values of quantities in the SI	
By I. Mills	2313
Response to Mills' comments on the SI notation	
By M. P. Foster	2317
A double-layer Boussinesq-type model for highly nonlinear and dispersive waves	
By F. Chazel, M. Benoit, A. Ern & S. Piperno	2319
Orthogonality relations for fluid-structural waves in a three-dimensional, rectangular duct with flexible walls	
By J. B. Lawrie	2347
On the complete integrability and linearization of nonlinear ordinary differential equations. V. Linearization of coupled second-order equations	
By V. K. Chandrasekar, M. Senthilvelan & M. Lakshmanan	2369
The viscous froth model: steady states and the high-velocity limit	
By S. J. Cox, D. Weaire & G. Mishuris	2391
Dating fired-clay ceramics using long-term power law rehydroxylation kinetics	
By M. A. Wilson, M. A. Carter, C. Hall, W. D. Hoff, C. Ince, S. D. Savage, B. McKay & I. M. Betts	2407

Mathematical modelling of cilia-driven transport of biological fluids	
By D. J. Smith, E. A. Gaffney & J. R. Blake	2417
Time-dependent lateral transmission of force in skeletal muscle	
By Y. Gao, A. S. Wineman & A. M. Waas	2441
Classification of conservation laws of compressible isentropic fluid flow in $n > 1$ spatial dimensions	
By S. C. Anco & A. Dar	2461
Boundary algebraic equations for lattice problems	
By P.-G. Martinsson & G. J. Rodin	2489
The gauge theory of dislocations: a uniformly moving screw dislocation	
By M. Lazar	2505
Fractal solids, product measures and fractional wave equations	
By J. Li & M. Ostoja-Starzewski	2521
The mother of all protocols: restructuring quantum information's family tree	
By A. Abeyesinghe, I. Devetak, P. Hayden & A. Winter	2537
Axisymmetric contact with friction of a rigid sphere with an elastic half-space	
By O. I. Zhupanska	2565
Equation of motion for point vortices in multiply connected circular domains	
By T. Sakajo	2589
Bäcklund transformations and the Atiyah–Ward ansatz for non-commutative anti-self-dual Yang–Mills equations	
By C. R. Gilson, M. Hamanaka & J. J. C. Nimmo	2613

No. 9 8 September 2009

Relative equilibria of four identical satellites	
By A. Albouy & Y. Fu	2633
Stability of some solutions for elliptic equations on a cylindrical domain	
By C. Valls	2647
Exact solution of an electro-osmotic flow problem in a cylindrical channel of polymer electrolyte membranes	
By P. Berg & K. Ladipo	2663
Instability modelling of drumlin formation incorporating lee-side cavity growth	
By A. C. Fowler	2681
Campbell diagrams of weakly anisotropic flexible rotors	
By O. N. Kirillov	2703
Asymptotic expansions for solitary gravity-capillary waves in two and three dimensions	
By M. J. Ablowitz & T. S. Haut	2725
Simple conjugated polymer nanoparticles as biological labels	
By M. Green, P. Howes, C. Berry, O. Argyros & M. Thanou	2751
On the groundstate energy of tight knots	
By F. Maggioni & R. L. Ricca	2761
The decay of flexural-gravity waves in long sea ice transects	
By G. L. Vaughan, L. G. Bennetts & V. A. Squire	2785
Analysis of Regge poles for the Schrödinger equation	
By A. Hiscox, B. M. Brown & M. Marletta	2813

Reduced Bloch mode expansion for periodic media band structure calculations By M. I. Hussein	2825
Uni-axial stress–strain response and thermal conductivity degradation of ceramic matrix composite fibre tows By C. Tang, M. Blacklock & D. R. Hayhurst	2849
Synthetic aperture diffraction tomography for three-dimensional imaging By F. Simonetti & L. Huang	2877
On the Maslov index of multi-pulse homoclinic orbits By F. Chardard, F. Dias & T. J. Bridges	2897
Domain walls and double bubbles By M. Gillard & P. Sutcliffe	2911
Unsupervised training of Bayesian networks for data clustering By D. T. Pham & G. A. Ruz	2927

No. 10 8 October 2009

Aromatic adsorption on metals via first-principles density functional theory By S. J. Jenkins	2949
Venturi effect on slotted metamaterial interfaces: broadband tunnelling By C. Monzon	2977
Conductivity of a two-dimensional composite containing elliptical inclusions By V. Mityushev	2991
Thermodynamic control on the climate of intense tropical cyclones By J. C. L. Chan	3011
On determinism and well-posedness in multiple time dimensions By W. Craig & S. Weinstein	3023
Dequantization of the Dirac monopole By D. C. Brody	3047
Internal resonance of vibrational modes in single-walled carbon nanotubes By M. X. Shi, Q. M. Li & Y. Huang	3069
Focusing of unidirectional wave groups on deep water: an approximate nonlinear Schrödinger equation-based model By T. A. A. Adcock & P. H. Taylor	3083
Rotationally invariant quadratures for the sphere By C. Ahrens & G. Beylkin	3103
Critical strength of an electric field whereby a bubble can adopt a steady shape By S. J. Shaw & P. D. M. Spelt	3127
On the reliability of earth slopes in three dimensions By D. V. Griffiths, J. Huang & G. A. Fenton	3145
The Invariant Set Postulate: a new geometric framework for the foundations of quantum theory and the role played by gravity By T. N. Palmer	3165
Investigation of the critical states of dielectric cracks in functionally graded piezoelectric materials By Z. Yan & L. Jiang	3187

Theoretical and numerical analysis of a spreading opposed-flow diffusion flame By Y. Long & I. S. Wichman	3209
Role of the defect core in energetics of vacancies By V. Gavini	3239

No. 11 8 November 2009

An adjoint for likelihood maximization By D. J. J. Toal, A. I. J. Forrester, N. W. Bressloff, A. J. Keane & C. Holden	3267
Large deviation bounds for k -designs By R. A. Low	3289
Randomized switching in the two-envelope problem By M. D. McDonnell & D. Abbott	3309
Solving frictionless rocking block problem with multiple impacts By C. Yilmaz, M. Gharib & Y. Hurmuzlu	3323
Asymptotics of linear initial boundary value problems with periodic boundary data on the half-line and finite intervals By G. M. Dujardin	3341
Estimating ocean wave directional spreading from an Eulerian surface elevation time history By T. A. A. Adcock & P. H. Taylor	3361
Wave scattering by platonic grating stacks By N. V. Movchan, R. C. McPhedran, A. B. Movchan & C. G. Poulton	3383
The application of Fermat's principle for imaging anisotropic and inhomogeneous media with application to austenitic steel weld inspection By G. D. Connolly, M. J. S. Lowe, J. A. G. Temple & S. I. Rokhlin	3401
Galactic spiral structure By C. Francis & E. Anderson	3425
Electric field assisted hydrogen fluoride etching of silica By R. B. S. Neto & B. Lesche	3447
Green's functions in non-local three-dimensional linear elasticity By O. Weckner, G. Brunk, M. A. Epton, S. A. Silling & E. Askari	3463
Electrically and magnetically charged vortices in the Chern–Simons–Higgs theory By R. M. Chen, Y. Guo, D. Spirn & Y. Yang	3489
On the collapse of locally isostatic networks By V. Kapko, M. M. J. Treacy, M. F. Thorpe & S. D. Guest	3517
Marginal conditions for thermoacoustic oscillations in resonators By N. Sugimoto & R. Takeuchi	3531
Superadiabatic transitions in quantum molecular dynamics By V. Betz, B. D. Goddard & S. Teufel	3553

No. 12 8 December 2009

Magnetostatics of the uniformly polarized torus By M. Beleggia, M. De Graef & Y. T. Millev	3581
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A boundary element regularized Stokeslet method applied to cilia- and flagella-driven flow	
By D. J. Smith	3605
Pressure rise generated by the expansion of a local gas volume in a closed vessel	
By D. Stamps, E. Cooper III, R. Egbert, S. Heerdink & V. Stringer	3627
Controlled onset of low-velocity collisions in a vibro-impacting system with friction	
By F. Svahn & H. Dankowicz	3647
A novel method of solution for the fluid-loaded plate	
By A. C. L. Ashton & A. S. Fokas	3667
Boltzmann and Fokker–Planck equations modelling opinion formation in the presence of strong leaders	
By B. Düring, P. Markowich, J.-F. Pietschmann & M.-T. Wolfram	3687
Sequential Monte Carlo methods for diffusion processes	
By A. Jasra & A. Doucet	3709
Stochastic expansions and Hopf algebras	
By S. J. A. Malham & A. Wiese	3729
Cones of material response functions in one-dimensional and anisotropic linear viscoelasticity	
By M. Seredyńska & A. Hanyga	3751
Supporting electrolyte asymptotics and the electrochemical pickling of steel	
By M. Vynnycky & N. Ipek	3771
A sufficient condition for the existence of trapped modes for oblique waves in a two-layer fluid	
By S. A. Nazarov & J. H. Videman	3799
Single- and double-spiral-vortex models for a supercavitating non-symmetric wedge in a jet	
By Y. A. Antipov & A. Y. Zemlyanova	3817
Using solvents to remove a toner print so that office paper might be reused	
By T. A. M. Counsell & J. M. Allwood	3839
The mechanics and mathematics of the effect of pressure on the shear modulus of elastomers	
By K. R. Rajagopal & G. Saccomandi	3859
Effects of microstructures on mesoscopic morphological transitions in deposition growth models	
By P. A. Sánchez, T. Sintes, O. Piro & J. H. E. Cartwright	3857

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Front cover: Planform of a three-dimensional convection pattern propagating in the left direction as travelling waves; this is due to the resonant interaction between steady modes with wavenumbers of a 1:2 ratio in a two-layered Rayleigh-Bénard problem. Twelve-dimensional amplitude equations derived on a hexagonal lattice give a rich variety of bifurcation structures involving steady solutions, time-periodic solutions, nearly heteroclinic cycles and chaotic solutions. For further details see Fujimura in *Proc. R. Soc. A* (2008) **464**, 133–153 (doi:10.1098/rspa.2007.0168).