

Curriculum Vitae di Angelo Morro

Studi ed esperienza professionale

1966-1970: Studente di Fisica presso l'Università di Genova
23 Novembre 1970: Laurea in Fisica con lode
1971-1972: Borsista presso l'Istituto di Fisica, Genova
15 Novembre 1972: Diploma con lode della Scuola di Perfezionamento in Fisica
1973-1980: Assistente di Meccanica Razionale (Facoltà di Ingegneria, Genova)
Settembre 1976: Borsa CNR per ricerca presso il Laboratorio di Meccanica Teorica, CNRS, Paris VI
Estate-Autunno 1978: Bors CNR per ricerca presso l'Istituto di Matematica di Oxford
1980-1988: Professore di Meccanica Razionale (Ingegneria, Genova)
1986-2000: Presidente del Consiglio di Corso di Studio in Ingegneria Elettronica, Genova
1987-1993: Membro dell'Advisory Board della rivista Meccanica
Estate 1988 "Professeur invite' " presso il Laboratorio di Modellizzazione Meccanica, Università P. & M. Curie, Paris VI.
1988-2016: Professore ordinario di Fisica Matematica (Facoltà di Ingegneria, Genova).
Luglio 1990 Professore Visitatore, Università Tecnica di Berlino
1994-2001 e 2006-2009: Segretario dell'AIMETA
2002-2005: Presidente dell'AIMETA
2007-2013: Presidente della Commissione Paritetica di Ingegneria
2013-2015: Presidente della Commissione Paritetica della Scuola Politecnica
2014: Presidente della Commissione Paritetica dell'Università di Genova
2015: Presidente del Comitato Scientifico, 22-esimo Congresso AIMETA
2016: Membro del Comitato Scientifico Internazionale, Thermal Stresses 2016
2017-2018: Presidente della Commissione ASN del settore 01/A4
dal 2021: Professore Emerito di Fisica Matematica

Insegnamento

1973-1980: Meccanica Razionale; Fisica Matematica
1981-1988: Meccanica Razionale; Fisica Matematica; Termodinamica del Non-Equilibrio
1988-1998: Fisica Matematica; Matematica Applicata; Metodi Matematici e Statistici
1998-2007: Matematica; Fisica Matematica; Metodi Matematici e Statistici
2007-2013: Matematica; Statistica
2013-2016: Analisi Matematica, Fisica Matematica, Statistica
2016-2021: Analisi Matematica; Fisica Matematica
2021-2024: Fisica Matematica
2024-2025: Mathematical Analysis (mod 1)
dal 2000: Continuum Mechanics (per studenti del Dottorato in Ingegneria Civile)

Interessi di ricerca

La ricerca riguarda essenzialmente la modellizzazione matematica in meccanica ed elettromagnetismo dei mezzi continui.

Particolari argomenti sono:

Transizioni di fase

Termodinamica dei mezzi continui

Materiali con memoria

Miscele

Isteresi

Propagazione ondosa

Libri in inglese

M. Fabrizio & A. Morro

Mathematical Problems in Linear Viscoelasticity

SIAM, Philadelphia, 1992

G. Caviglia & A. Morro

Inhomogeneous Waves in Solids and Fluids

World Scientific, Singapore, 1992

M. Fabrizio & A. Morro

Electromagnetism of Continuous Media

Oxford University Press, Oxford 2003

A. Morro & C. Giorgi

Mathematical Modelling of Continuum Physics

Birkhäuser-Springer, Cham 2023

Libri in italiano

F. Bampi, M. Benati, A. Morro

Problemi di Meccanica Razionale

ECIG, Genova, 1988

A. Morro

Elementi di Fisica Matematica

ECIG, Genova, 1997

C. Giorgi, A. Morro

Introduzione alla Matematica

Maggioli Editore, 2012

Angelo MORRO

Elenco delle pubblicazioni

- 1 M. Carrassi & A. Morro
A modified Navier-Stokes equation and its consequences on sound dispersion
Nuovo Cimento B 9, 321-343 (1972)
- 2 M. Carrassi & A. Morro
Some remarks about dispersion and absorption of sound in monoatomic rarefied gases
Nuovo Cimento B 13, 281-299 (1973)
- 3 L. Basano & A. Morro
Gravitational radiation from charged black holes
Lett. Nuovo Cimento 5, 266-268 (1973)
- 4 L. Basano & A. Morro
Black-hole collisions as sources of gravitational radiation
Nuovo Cimento B 17, 64-70 (1973)
- 5 L. Basano & A. Morro
Collapsed Schwarzschild fields and thermodynamics
Lett. Nuovo Cimento 6, 193-196 (1973)
- 6 M. Carrassi & A. Morro
Continuum thermodynamics and spatial interaction in fluids
Atti Accad. Naz. Lincei Rend. 55, 437-444 (1973)
- 7 M. Carrassi & A. Morro
The thermodynamic theory of the Maxwellian fluid
Boll. Un. Mat. Ital. 9, 297-335 (1974)
- 8 R. Borghesani & A. Morro
Time-reversal invariance and thermodynamics of electromagnetic fields in materials with memory
Ann. Mat. Pura Appl. 99, 65-80 (1974)
- 9 R. Borghesani & A. Morro
Addendum. Time-reversal invariance and thermodynamics of electromagnetic fields in materials with memory
Ann. Mat. Pura Appl. 101, 385-386 (1974)
- 10 R. Borghesani & A. Morro
Thermodynamics and isotropy in thermal and electric conduction
Meccanica 9, 63-69 (1974)
- 11 R. Borghesani & A. Morro
Thermodynamic restrictions on thermoelectric, thermomagnetic and galvanomagnetic coefficients
Meccanica 9, 157-161 (1974)
- 12 A. Morro
Thermodynamics and spatial interaction in viscoelastic materials
Boll. Un. Mat. Ital. 10, 355-374 (1974)
- 13 A. Morro
Thermodynamics of apolar viscoelastic dielectrics
Meccanica 10, 120-126 (1975)
- 14 A. Morro
Linear effects in apolar viscoelastic dielectrics
Istit. Lombardo Accad. Sci. Lett. Rend. A 110, 371-386 (1976)

- 15 A. Morro
Spatial interaction in magneto-micropolar continua
Meccanica 12, 194-207 (1977)
- 16 R. Borghesani & A. Morro
Relaxation functions and time-reversal invariance in thermal and electric conduction
Ann. Mat. Pura Appl. 114, 271-288 (1977)
- 17 A. Morro
Temperature waves in rigid materials with memory
Meccanica 12, 73-77 (1977)
- 18 A. Morro
Thermoviscoelasticity and invariance of the entropy production under time-reversal
Ann. Mat. Pura Appl. 119, 115-137 (1979)
- 19 A. Morro
Interaction of shock waves with acoustic waves
Atti Accad. Naz. Lincei Rend. 64, 177-185 (1978)
- 20 A. Morro
Interaction of acoustic waves with shock waves in elastic solids
Z. Angew. Math. Phys. 29, 822-827 (1978)
- 21 E. Massa & A. Morro
A dynamical approach to relativistic continuum thermodynamics
Ann. Inst. Henri Poincaré 29, 423-454 (1978)
- 22 F. Bampi & A. Morro
Gravity waves in water of variable depth
Nuovo Cimento C 1, 377-388 (1978)
- 23 A. Morro
Interaction of waves with shocks in magnetofluid-dynamics
Acta Mech. 35, 197-213 (1980)
- 24 A. Morro
Oblique interaction of waves with shocks
Acta Mech. 38, 241-248 (1981)
- 25 A. Morro
From microscopic to macroscopic reversibility
Atti Accad. Naz. Lincei Rend. 66, 541-547 (1979)
- 26 A. Morro
Symmetry and reversibility in materials with hidden variables
Int. J. Engng Sci. 18, 913-919 (1980)
- 27 F. Bampi & A. Morro
Water wave theories and variational principles
Nuovo Cimento C 2, 352-366 (1979)
- 28 F. Bampi & A. Morro
Korteweg-de Vries equation and nonlinear waves
Lett. Nuovo Cimento 26, 61-63 (1979)
- 29 A. Morro
Wave propagation in thermo-viscous materials with hidden variables
Arch. Mech. 32, 145-161 (1980)
- 30 A. Morro
Shock waves in thermo-viscous fluids with hidden variables
Arch. Mech. 32, 193-199 (1980)
- 31 A. Morro

- Acceleration waves in thermo-viscous fluids*
Rend. Sem. Mat. Univ. Padova 63, 169-184 (1980)
- 32 A. Morro
Shock and wave relations in MFD with heat conduction and viscosity
Meccanica 14, 112-114 (1980)
- 33 A. Morro
Wave propagation in thermo-viscous magnetofluid-dynamics
Phys. Lett. A 79, 84-86 (1980)
- 34 A. Morro
Shocks and waves in thermo-viscous MFD with hidden variables
Acta Phys. Hung. 48, 369-382 (1980)
- 35 F. Bampi & A. Morro
Hidden variables and waves in relativistic thermo-viscous fluid dynamics
Acta Phys. Polon. B 10, 1081-1084 (1979)
- 36 F. Bampi & A. Morro
Two approaches to nonstationary relativistic thermodynamics
J. Math. Phys. 21, 1201-1204 (1980)
- 37 F. Bampi & A. Morro
Viscous fluids with hidden variables and hyperbolic systems
Wave Motion 2, 153-157 (1980)
- 38 A. Morro
Quasi-linear systems and waves in thermo-viscous fluid dynamics
Atti Accad. Naz. Lincei Rend. 67, 340-346 (1980)
- 39 F. Bampi & A. Morro
Objectivity principle revisited
Istit. Lombardo Accad. Sci. Lett. Rend. A 114, 149-156 (1980)
- 40 F. Bampi & A. Morro
Objectivity and objective time derivatives in continuum physics
Foundations of Physics 10, 905-920 (1980)
- 41 F. Bampi & A. Morro
Relativistic heat equation in causal nonstationary thermodynamics
Phys. Lett. A 79, 156-158 (1980)
- 42 F. Bampi & A. Morro
Dissipative effects and waves in magnetofluid dynamics
J. Non-Equilib. Thermodyn. 6, 1-14 (1981)
- 43 F. Bampi & A. Morro
Nonstationary thermodynamics and wave propagation in heat-conducting viscous fluids
J. Phys. A 14, 631-638 (1981)
- 44 F. Bampi & A. Morro
Mixture approach to a model for sediment transport
Phys. Fluids 24, 209-213 (1981)
- 45 F. Bampi, D. Jou & A. Morro
Two continuum approaches to a wavelength-dependent description of heat conduction
Physica A 107, 393-403 (1981)
- 46 A. Morro
A Gronwall-like inequality and its application to continuum thermodynamics
Boll. Un. Mat. Ital. B 1, 553-562 (1982)
- 47 F. Bampi & A. Morro
An approach to particulate sedimentation and virtual masses through thermo-viscous

fluid mixtures

Boll. Un. Mat. Ital. Suppl. Fis. Mat. 1, 237-252 (1981)

48 F. Bampi & A. Morro

Relaxation phenomena in irreversible thermodynamics

Atti Sem. Mat. Fis. Univ. Modena 30, 1-15 (1981)

49 D. Jou, F. Bampi & A. Morro

Thermodynamic description of ultrasonic attenuation in metals

J. Non-Equilib. Thermodyn. 7, 201-212 (1982)

50 A. Morro

Hidden variable approach to constrained solids

Arch. Mech. 34, 165-177 (1982)

51 F. Bampi & A. Morro

Effects of viscosity on water waves

Nuovo Cimento C 4, 551-562 (1982)

52 L. De Florian, F. Bampi & A. Morro

Computer analysis of waves on a shallow sloping beach

Quaderno IAC n. 133, Roma, 1981

53 F. Bampi & A. Morro

Mixture approach to plasmas with dissipative phenomena

Nuovo Cimento D 1, 169-185 (1982)

54 F. Bampi & A. Morro

Objective constitutive relations in elasticity and viscoelasticity

Meccanica 17, 138-142 (1982)

55 F. Bampi & A. Morro

The inverse problem of the calculus of variations applied to continuum physics

J. Math. Phys. 23, 2312-2321 (1982)

56 A. Morro & B. Straughan

Highly unstable solutions to completely nonlinear diffusion problems

J. Nonlinear Analysis TMA 7, 231-237 (1983)

57 F. Bampi & A. Morro

Exchange of energy and momentum between gases at different temperatures

Phys. Fluids 25, 2207-2210 (1982)

58 F. Bampi & A. Morro

Hamiltonian cosmology and gravitational solitons: a variational outlook

Phys. Rev. D 26, 3354-3358 (1982)

59 F. Franchi & A. Morro

Continuous dependence and uniqueness for heat-conducting viscous fluids in bounded domains

Rend. Circ. Mat. Palermo 33, 145-158 (1984)

60 A. Morro

Evolution equations for dissipative bodies and hyperbolicity

Acta Mech. 48, 227-231 (1983)

61 A. Morro

A pointwise estimate for the solution to a linear Volterra integral equation

Atti Accad. Naz. Lincei Rend. 74, 12-18 (1983)

62 F. Bampi & A. Morro

A lagrangian density for the dynamics of elastic dielectrics

Int J. Non-Linear Mech. 18, 441-447 (1983)

63 F. Bampi & A. Morro

- Dissipative materials and variational formulations*
 Mech. Res. Comm. 10, 287-292 (1983)
- 64 F. Bampi & A. Morro
Lagrangians for certain classes of inelastic solids
 Int. J. Solids Structures 22, 1357-1367 (1986)
- 65 A. Morro
A variational principle for elastic dielectrics
 The Mechanical Behaviour of Electromagnetic Solid Continua (G. A. Maugin ed.),
 North Holland, Amsterdam, 1983; pp. 217-221
- 66 F. Bampi & A. Morro
The connection between variational principles in Eulerian and Lagrangian descriptions
 J. Math. Phys. 25, 2418-2421 (1984)
- 67 F. Bampi & A. Morro
On functionals made stationary by given functions
 Boll. Un. Mat. Ital. A 4, 49-56 (1985)
- 68 B. Straughan, F. Bampi & A. Morro
Chemical convective instability and quasi-equilibrium thermodynamics
 Meccanica 19, 291-293 (1984)
- 69 F. Bampi & A. Morro
Nonequilibrium thermodynamics: a hidden variable approach
 Recent Developments in Nonequilibrium Thermodynamics (J. Casas-Vazquez, D. Jou
 & G. Lebon eds), Lecture Notes in Physics 199, Springer, Berlin, 1984; pp. 211-232
- 70 A. Morro
Relaxation phenomena via hidden variable thermodynamics
 Thermodynamics and Constitutive Equations (G. Grioli ed.),
 Lecture Notes in Physics 228, Springer, Berlin, 1985; pp. 217-231
- 71 F. Franchi & A. Morro
Domain of influence in nonlinear heat conduction
 Atti Sem. Mat. Fis. Univ. Modena 33, 247-262 (1984)
- 72 F. Bampi & A. Morro
Topics in the inverse problem of the calculus of variations
 Boll. Un. Mat. Ital. Suppl. Fis. Mat. 5, 93-115 (1986)
- 73 F. Bampi & A. Morro
A variational approach to deformable electromagnetic solids
 Acta Phys. Polon. B 17, 937-949 (1986)
- 74 D. Jou, F. Bampi & A. Morro
A kinetic and mixture approach to continuum models for metals
 Boll. Un. Mat. Ital. Suppl. Fis. Mat. 5, 245-257 (1986)
- 75 A. Morro
*Negative semidefiniteness of the viscoelastic attenuation tensor via the
 Clausius-Duhem inequality*
 Arch. Mech. 37, 255-259 (1985)
- 76 M. Fabrizio & A. Morro
Thermodynamic restrictions on relaxation functions in linear viscoelasticity
 Mech. Res. Comm. 12, 101-105 (1985)
- 77 A. Morro, R. Drouot & G. A. Maugin
Thermodynamics of polyelectrolyte solutions in an electric field
 J. Non-Equilib. Thermodyn. 10, 131-144 (1985)
- 78 G. Caviglia & A. Morro

- Drag on a sphere in a fluid*
 Nuovo Cimento C 9, 74-88 (1986)
- 79 A. Morro & M. Romeo
On the law of mass action in fluid mixtures with several temperatures
 Nuovo Cimento D 7, 539-550 (1986)
- 80 A. Morro & A. I. Murdoch
Stress, body force, and momentum balance in mixture theory
 Meccanica 21, 184-190 (1986)
- 81 A. I. Murdoch & A. Morro
On the continuum theory of mixtures: motivation from discrete considerations
 Int. J. Engng Sci. 25, 9-25 (1987)
- 82 A. Morro & M. Fabrizio
On uniqueness in linear viscoelasticity: a family of counterexamples
 Quart. Appl. Math. 45, 321-325 (1987)
- 83 A. Morro
Symmetry and monotonicity of the relaxation function in linear viscoelasticity
 Acta Mech. 66, 263-268 (1987)
- 84 A. Morro & M. Parodi
Extensive force in polyelectrolyte solutions
 J. Molecular Liquids 32, 279-289 (1986)
- 85 A. Morro, R. Drouot & G. A. Maugin
A continuum model for polyelectrolytes in solution
 Continuum Models of Discrete Systems (A. J. M. Spencer ed.),
 Balkema, Rotterdam (1987); pp. 139-144
- 86 P. J. Chen & A. Morro
On induced discontinuities in a class of linear materials with internal state parameters
 Meccanica 22, 14-18 (1987)
- 87 A. Morro & T. Ruggeri
Second sound and internal energy in solids
 Int. J. Non-Linear Mechanics 22, 27-36 (1987)
- 88 R. Drouot, G. A. Maugin & A. Morro
Anisotropic equilibrium conformations in solutions of polymers and polyelectrolytes
 J. Non-Newtonian Fluid Mechanics 23, 295-304 (1987)
- 89 G. Caviglia & A. Morro
Noether-type conservation laws for perfect fluid motions
 J. Math. Phys. 28, 1056-1060 (1987)
- 90 M. Fabrizio & A. Morro
Viscoelastic relaxation functions compatible with thermodynamics
 J. Elasticity 19, 63-75 (1988)
- 91 A. Morro & M. Romeo
The law of mass action for fluid mixtures with several temperatures and velocities
 J. Non-Equilib. Thermodyn. 13, 339-353 (1988)
- 92 A. Chiabrera, A. Morro & M. Parodi
High-field effects in liquid dielectrics
 Ferroelectrics 76, 335-342 (1987)
- 93 B. Bianco, A. Chiabrera, A. Morro & M. Parodi
Effects of magnetic exposure on ions in electric fields
 Ferroelectrics 86, 159-168 (1987)
- 94 A. Morro & M. Parodi

- A variational approach to non-linear dielectrics; application to polyelectrolytes*
J. Electrostatics 20, 219-232 (1987)
- 95 A. Morro & M. Romeo
Thermodynamic derivation of Saha's equation for a multi-temperature plasma
J. Plasma Phys. 39, 41-51 (1987)
- 96 G. Caviglia & A. Morro
Conservation laws in anisotropic elastostatics
Int. J. Engng Sci. 26, 393-400 (1988)
- 97 A. Morro & T. Ruggeri
Nonequilibrium properties of solids through second sound measurements
J. Phys. C 21, 1743-1752 (1988)
- 98 G. Caviglia & A. Morro
On conservation laws for incompressible fluids
Int. J. Math. & Math. Sci. 12, 377-384 (1989)
- 99 A. Morro
Variational methods for nonlinear dielectrics
Atti Sem. Mat. Fis. Univ. Modena 36, 339-353 (1988)
- 100 G. Caviglia & A. Morro
A general approach to conservation laws in viscoelasticity
Acta Mech. 75, 255-267 (1988)
- 101 A. Morro & I. Müller
A study of swelling and collapse in polyelectrolyte gels
Rheologica Acta 27, 44-51 (1988)
- 102 G. Caviglia & A. Morro
Initial-data dependent conservation laws for the telegraph equation
Boll. Un. Mat. Ital. B 2, 859-875 (1988)
- 103 M. Benati & A. Morro
Dynamics of a chain of flexible links
ASME J. Dynamic Systems, Measurement and Control 110, 410-415 (1988)
- 104 G. Caviglia & A. Morro
Generalized symmetries and conservation laws: a Noether-type approach
Riv. Mat. Pura Appl. (1988)
- 105 G. Caviglia, A. Morro & E. Pagani
Time-harmonic waves in viscoelastic media
Mech. Res. Comm. 16, 53-58 (1988)
- 106 A. Morro & M. Parodi
Lagrangian and energy for nonlinear dielectrics
Ferroelectrics 89, 211-217 (1989)
- 107 M. Parodi, M. Tortonesi & A. Morro
Effects of site-binding and field-dependent permittivity in polyelectrolyte solutions
J. Mol. Liquids 40, 65-77 (1988)
- 108 G. A. Maugin & A. Morro
Viscoelastic materials with internal variables and dissipation functions
Acta Phys. Hung. 66, 69-78 (1989)
- 109 A. Morro & M. Vianello
Free energy and internal variables in linear viscoelasticity
Atti Accad. Naz. Lincei Rend. (1988)
- 110 G. Caviglia & A. Morro
Inhomogeneous waves and sound absorption in viscous fluids

Phys. Lett. A 134, 127-130 (1988)

111 M. Fabrizio, C. Giorgi & A. Morro
Minimum principles, convexity, and thermodynamics in viscoelasticity
Cont. Mech. Therm. 1, 197-211 (1989)

112 M. Benati & A. Morro
Dynamical equations of constrained robotic devices
Meccanica 23, 243-249 (1989)

113 M. Fabrizio & A. Morro
Fading memory spaces and approximate cycles in linear viscoelasticity
Rend. Sem. Mat. Univ. Padova 82, 239-255 (1989)

114 A. Chiabrera, A. Morro & M. Parodi
Water concentration and dielectric permittivity in molecular crevices
Nuovo Cimento D 11, 981-992 (1989)

115 G. A. Maugin & A. Morro
Constitutive equations in viscoelasticity through the Legendre-Fenchel transformation
Rheologica Acta 28, 190-192 (1989)

116 G. Caviglia & A. Morro
On the generation of conservation laws in viscoelasticity
Acta Mech. 81, 91-95 (1990)

117 M. Parodi, M. Tortonesi & A. Morro
Site binding and nonlinearity effects on the extending force in polyelectrolyte solutions
J. Electrostatics 24, 271-281 (1989)

118 G. Caviglia, A. Morro & E. Pagani
Inhomogeneous waves in viscoelastic media
Wave Motion 12, 143-159 (1990)

119 G. Caviglia, A. Morro & E. Pagani
Reflection and refraction at elastic-viscoelastic interfaces
Nuovo Cimento C 12, 399-413 (1989)

120 A. Morro & M. Vianello
Minimal and maximal free energy for materials with memory
Boll. Un. Mat. Ital. A 4, 45-55 (1990)

121 G. Caviglia, A. Morro & E. Pagani
Surface waves on a solid half-space
J. Acoust. Soc. Amer. 86, 2456-2459 (1989)

122 G. Caviglia & A. Morro
Conservation laws in heat conduction with memory
Rendiconti di Matematica 9, 369-381 (1989)

123 G. Caviglia & A. Morro
Conservation laws in viscoelasticity
Quart. Appl. Math. 48, 503-516 (1990)

124 G. Caviglia & A. Morro
Surface waves at a fluid-viscoelastic solid interface
Europ. J. Mech. A/Solids 9, 143-155 (1989)

125 A. Morro & B. Straughan
Equations for reacting viscous fluids near chemical equilibrium
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126 G. Caviglia & A. Morro
A uniqueness theorem for the scattering of harmonic waves in a fluid-solid medium
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- 127 B. Straughan & A. Morro
Time-invariant uniqueness for reacting viscous fluids near chemical equilibrium
Math. Meth. Appl. Sci. 13, 137-141 (1990)
- 128 G. Caviglia & A. Morro
On the modelling of dissipative solids
Meccanica 25, 124-127 (1990)
- 129 A. Morro & B. Straughan
Convective instabilities of reacting viscous fluids far from equilibrium
J. Non-Equilib. Thermodyn. 15, 139-150 (1990)
- 130 A. Morro, G. A. Maugin & R. Drouot
Diffusion in polyelectrolyte solutions
Rheologica Acta 29, 215-222 (1990)
- 131 G. Caviglia & A. Morro
Scattering problems for acoustic waves
in Applied and Industrial Mathematics, R. Spigler ed., Kluwer, Dordrecht, 1991
- 132 A. Morro, L. E. Payne & B. Straughan
Decay, growth, continuous dependence, and uniqueness results in generalized heat conduction theories
Appl. Anal. 38, 231-243 (1990)
- 133 G. Caviglia & A. Morro
Body force effects on time-harmonic inhomogeneous waves
Arch. Mech. 42, 337-345 (1990)
- 134 A. Morro
Thermodynamics and extremum principles in viscoelasticity
Advances in Thermodynamics VI, S. Sieniutycz and P. Salamon eds, Taylor and Francis, New York, 1990
- 135 C. Giorgi & A. Morro
Extremum principles for viscoelastic fluids
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- 136 G. Caviglia & A. Morro
Wave propagation in inhomogeneous viscoelastic solids
Quart. J. Mech. Appl. Math. 44, 45-54 (1991)
- 137 M. Fabrizio & A. Morro
Reversible processes in the thermodynamics of continuous media
J. Non-Equilib. Thermodyn. 16, 1-12 (1991)
- 138 A. Morro & B. Straughan
A uniqueness theorem in the dynamical theory of piezoelectricity
Math. Meth. Appl. Sci. 14, 295-299 (1991)
- 139 G. Caviglia, A. Morro & B. Straughan
Thermoelasticity at cryogenic temperatures
Int. J. Non-Linear Mech. 27, 251-263 (1992)
- 140 A. De Gloria & A. Morro
Nonlinear effects on the electric field originated by molecular assemblies
J. Molecular Electronics 7, 47-53 (1991)
- 141 A. Morro & B. Straughan
Continuous dependence on the source parameters for convective motion in porous media
J. Nonlin. Anal. TMA 18, 307-315 (1992)
- 142 G. Caviglia & A. Morro
Acoustic waves in non-homogeneous viscoelastic fluids

- Mathematical and Numerical Aspects of Wave Propagation Phenomena (G. Cohen et al., eds.), SIAM, Philadelphia, 1991; ch. 22.
- 143 G. Caviglia & A. Morro
Ray analysis of wave propagation in non-homogeneous viscoelastic fluids
SIAM J. Appl. Math. 52, 315-326 (1992)
- 144 A. Morro
Electric field in nonlinear dielectrics
Phys. Rev. A 43, 6970-6974 (1991)
- 145 G. Caviglia & A. Morro
Energy flux in dissipative media
Acta Mech. 94, 29-41 (1992)
- 146 G. Caviglia & A. Morro
General behaviour of inhomogeneous waves at interfaces
Mech. Res. Comm. 18, 319-325 (1991)
- 147 M. Benati & A. Morro
Equations for multibody dynamics
Atti Accad. Peloritana Pericolanti 68, 291-308 (1990)
- 148 G. Caviglia & A. Morro
Rays and transport equation for pre-stressed solids
Atti Accad. Peloritana Pericolanti 68, 261-275 (1990)
- 149 G. Caviglia & A. Morro
Reflection and refraction of rays in pre-stressed solids
Meccanica 27, 47-53 (1992)
- 150 C. Giorgi & A. Morro
Viscoelastic solids with unbounded relaxation function
Cont. Mech. Thermodyn. 4, 151-165 (1992)
- 151 G. Caviglia, A. Morro & B. Straughan
Reflection and refraction at a fluid-porous medium interface
J. Acoust. Soc. Am. 92, 1113-1119 (1992)
- 152 G. Caviglia, P. Cermelli & A. Morro
Time-harmonic waves in continuously layered media
Atti Sem. Mat. Fis Univ. Modena 41, 393-408 (1993)
- 153 A. Morro
On thermodynamics and stability problems in linear viscoelasticity
Rivista Matematica Univ. Parma 1, 189-195 (1992)
- 154 G. Caviglia & A. Morro
Asymptotic ray theory in heterogeneous viscoelastic solids
Quart. J. Mech. Appl. Math. 46, 569-582 (1993)
- 155 A. Morro, L. E. Payne & B. Straughan
Growth and pulse propagation in a fluid mixture
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- 156 G. Caviglia & A. Morro
Dissipative effects on wave propagation in viscoelastic solids
Eur. J Mechanics A/Solids 12, 387-402 (1993)
- 157 M. Benati & A. Morro
Formulation of equations of motion for a chain of flexible links using Hamilton's principle
ASME J. Dynamic Systems, Measurement and Control 116, 81-88 (1994)
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