

Angelo Morro

Adjunct professor

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Education and training

1970

Degree in Physics

summa cum laude

University of Genoa - Genova - IT

Academic experience

1980 - 2016

Full professor of Mathematical Physics

University of Genoa - Genova - IT

Work experience

No professional activity.

No professional activity.

Language skills

English

Independent

French

Basic

Teaching activity

Teaching began in 1973. Here are the courses given.

1973-1980: Rational mechanics, Mathematical physics

1981-1988: Rational mechanics, Mathematical physics, Non-equilibrium thermodynamics

1988-1998: Mathematical physics, Applied mathematics, Mathematical and statistical methods

1998-2007: Mathematics, Mathematical and statistical methods, Mathematical physics

2007-2013: Mathematics, Statistics

2013-2016: Mathematical analysis, Mathematical physics, Statistics

since 2016: Mathematical analysis, Mathematical physics

Postgraduate research and teaching activity

Supervision of PhD students, residents and post-doctoral fellows

Since 2000 I teach Continuum mechanics (for PhD students of Civil Engineering).

I am a member of the Council of Civil Engineering for PhD students.

Research interests

The research is addressed essentially to the mathematical modelling of continuous media in mechanics and electromagnetism. Specific, recent subjects are:

Models of phase transitions;

Rational thermodynamics of mixtures: diffusion, porous media, micropolar constituents;

Non-simple models of continua: materials with memory and spatial interaction;

Models of hysteresis, mechanical or electromagnetic;

Applications of rational thermodynamics to chemical reactions and phase equilibria;

Continuous models of cells and chemotaxis.

Grants

2005 - 2007

Mathematical models and methods in continuum physics

Italian Ministry of Education - IT

171.572 euros - Participant

In the project indicated I was the national coordinator (principal investigator). Analogous projects have been carried out with other national coordinator while I was local coordinator.

The general purpose of the project has been the development of mathematical models within continuum physics along with the analysis of thermodynamic restrictions and the well-posedness properties. In particular, the models investigated have addressed electromagnetic solids, porous materials, and continua with microstructure.

Editorial activity

Books in english

Fabrizio & A. Morro

Mathematical Problems in Linear Viscoelasticity

SIAM, Philadelphia, 1992

Caviglia & A. Morro

Inhomogeneous Waves in Solids and Fluids

World Scientific, Singapore, 1992

Fabrizio & A. Morro

Electromagnetism of Continuous Media
Oxford University Press, Oxford 2003

Books in italian

Bampi, M. Benati, A. Morro
Problemi di Meccanica Razionale
ECIG, Genova, seconda edizione 1988

A.Morro
Elementi di Fisica Matematica
ECIG, Genova, 1997

Giorgi & A. Morro
Introduzione alla Matematica
Maggioli Editore, second edition 2012

Assignments abroad

No teaching in foreign countries.

Other professional activities

No professional activity.