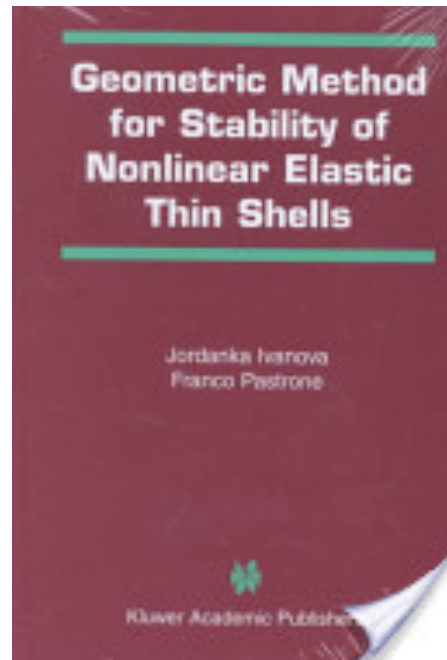




**Professor Franco Pastrone**



Jordanka Ivanova and Franco Pastrone, Geometric method for stability of non-linear elastic thin shells (Google eBook), Springer, 2001, 244 pages

See:

<http://matematica.unibocconi.it/autore/franco-pastrone>

[https://translate.google.com/translate?hl=en&sl=it&u=http://www.matematica.unito.it/do/docenti.pl/Show%3F\\_id%3Dfpastron&prev=search](https://translate.google.com/translate?hl=en&sl=it&u=http://www.matematica.unito.it/do/docenti.pl/Show%3F_id%3Dfpastron&prev=search)

[https://www.researchgate.net/profile/Franco\\_Pastrone](https://www.researchgate.net/profile/Franco_Pastrone)

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<https://www.youtube.com/watch?v=m2yCPjVsGg0>

Ferdinando Rossi School for Advanced Studies, Department of Mathematics  
University of Turin, Italy

### **Biography:**

Born in Chiusano d'Asti on 07/04/1945

Degree in Mathematics with honors in Turin on 06/11/1968.

Post Doctoral Fellow at the J.Hopkins Univ. Of Baltimore (Maryland, USA) from 01/07/1980 to 30/06/1981

Visiting Professor at the University of Manitoba (Winnipeg, Canada) from 07.04.1984 to 15.08.1984; from 15/06/1988 to 08/30/1988; and from 07/21/1993 to 08/15/1993

Present position : Professor of Mathematical Physics - Faculty of Science - University of Turin

### **Research Interests No. 1:**

Scientific activities are mainly carried out in the area of mathematical theory of elasticity, with particular attention to problems of statics and dynamics of continuous thin elastic structures such as thin shells;

propagation of nonlinear waves in complex structures, microstructures and granular solids. The results of this research appear in published works and communications at conferences, with a total of over sixty publications.

### **Research Interests No. 2:**

He is the author of over seventy scientific publications mostly in international journals, two books on research topics and various mathematical disclosure items. His scientific work focused mainly on the mathematical theory of elasticity, with particular attention to problems of statics and dynamics of thin elastic structures; Stability and buckling in elastic and elastoplastic shells with different boundary conditions; propagation of discontinuity waves in such structures; statics and dynamics of the Cosserat solids of size 1 and 2; the propagation of nonlinear waves in complex structures, elastic solids with microstructures, granular solids, with evidence of soliton propagation possibilities for these structures, in particular waves 'bell and kink-shaped'. His interests also extend to the history of mechanics and mathematical physics in the first half of the last century, topics to which he has devoted significant and extensive publications.

### **Selected Publications:**

#### **Book:**

Jordanka Ivanova and Franco Pastrone, Geometric method for stability of non-linear elastic thin shells (Google eBook), Springer, 2001, 244 pages

#### **Journal Articles:**

Cohen, H., Pastrone, F. (1986) Axisymmetric equilibrium states of nonlinear elastic cylindrical shells. *Internat. J. Non-Linear Mech.* 21: pp. 37-50

Pastrone, F., Tonon, M.L. (1989) Nonuniqueness of equilibrium states for axisymmetric elastic shells in tension. *J. Elasticity* 21: pp. 43-59

Harley Cohen and Franco Pastrone, "Buckling of a cylindrical shell subject to a wrench", *Meccanica*, Vol. 28, No. 4, pp 293-301, 1993