



**Professor Adnam Ibrahimbegovic**



**Figure 4 Schema of the of the pantadome erection**

From: Friedman N and Ibrahimbegovic A 2013 Overview of highly flexible, deployable lattice structures used in architecture and civil engineering undergoing large displacements YBL Journal of Built Environment 1 85–103

See:

<http://roberval.utc.fr/Ibrahimbegovic-Adnan-784?lang=fr>

<https://scholar.google.fr/citations?user=o9EDTUMAAAAJ&hl=fr>

[http://w3.lmt.ens-cachan.fr/site/php\\_perso/perso\\_page\\_lmt.php?nom=IBRAHIMBEGOVIC](http://w3.lmt.ens-cachan.fr/site/php_perso/perso_page_lmt.php?nom=IBRAHIMBEGOVIC)

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

<http://spotidoc.com/doc/1671584/prof.-adnan-ibrahimbegovic--chaire-de---roberval>

Laboratoire de Mécanique Roberval/Centre de Recherche Royallieu  
University of Technology, Compiègne, France

### **Biography:**

Prof. Adnan Ibrahimbegovic is Professor Classe Exceptionnelle, Member Senior IUF and Chair for Computational Mechanics at University of Technology Compiègne, an elite engineering school and a founding member of Sorbonne Universités. He has obtained his engineering education in Sarajevo, PhD at the University of California Berkeley, USA and Habilitation at the University Pierre and Marie Curie in Paris, France. He has held professorships and research positions at four different universities (including UC Berkeley, USA; EPFL, Switzerland; ENS-Cachan, France and currently UTC, France). He is the past Chairman of ENS-Cachan Teaching and LMT-Cachan Research Departments and Head of Master Program MaiSE. He has received a number of international distinctions, including IACM Fellow Award, Humboldt Research Award for Germany, Research Award for Slovenia, International Fellow NSERC Award for Canada, 'Claude Levy-Strauss' Chair for

Univ. Sao Paulo, Brazil, 'Asgard' Chair for NTNU, Norway, 'Hôte Académique' Award for EPFL, Switzerland. He has produced over 450 publications, including 160 papers in scientific journals and 7 textbooks and monographs.

### **Selected Publications:**

#### **Books:**

- Ibrahimbegovic A. (ed.), 'Computational Methods for Solids and Fluids : Multiscale Analysis, Probability Aspects and Model Reduction', Springer, (ISBN 978-3-319-27994-7), pp. 1-493, (2016)
- Ibrahimbegovic A., 'Nonlinear solid mechanics : theoretical formulations and finite element solution methods', Springer, Berlin, (ISBN 978-90-481-2330), pp. 1-571, (2009)
- Ibrahimbegovic A., M. Zlatar (eds.), 'Damage assessment and reconstruction after war or natural disaster', Springer, Berlin, (ISBN : HB 978-90-481-2385-8, PB 978-90-481-2384-1, E-book 978-90-481-2386-5), pp 1-405, (2009)
- Ibrahimbegovic A., I. Kozar (eds.), 'Extreme man-made and natural hazards in dynamics of structures', Springer, Berlin, (ISBN : HB 978-1-4020-5654-3, PB 978-1-4020-5655-0, E-book 978-1-4020-5656-7) pp 1-397 (2007)
- Ibrahimbegovic A., 'Mécanique non linéaire des solides déformables : Formulation théorique et résolution numérique par éléments finis', Hermes Science Publication - Lavoisier, Paris (ISBN 2-7462-1489-X) pp 1-604 (2006).
- Ibrahimbegovic A., B. Brank (eds.), Multi-physics and multi-scale computer models in nonlinear analysis and optimal design of engineering structures under extreme conditions, IOS Press, Amsterdam, (ISBN 1-58803-479-0) pp 1-407 (2005)

#### **Journal Articles:**

- Ibrahimbegovic A, Taylor RL, Wilson EL (1990) A robust quadrilateral membrane finite element with drilling degrees of freedom. *Int J Numer Methods Eng* 30: 445–457
- Ibrahimbegovic A, Wilson EL. A unified formulation for triangular and quadrilateral flat shell finite elements with drilling degrees of freedom. *Communications in Applied Numerical Methods* 1991; 7:1-9.
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- A. Ibrahimbegovic, F. Frey, and I. Kozar. Computational aspects of vector like parameterization of three-dimensional finite rotations. *Int. J. Numer. Meth. Eng.*, 38:3653–3673, 1995.
- Ibrahimbegovic A, Kozar I. Non-linear Wilson's brick element for finite elastic deformations of three-dimensional solids. *Communications in Numerical Methods in Engineering* 1995; 11:655-664.
- A. Ibrahimbegovic. On the choice of finite rotation parameters. *Comput. Methods Appl. Mech. Engrg.*, 149:49–71, 1997.
- Brank, B., Korelc, J., Ibrahimbegovic, A.: Nonlinear shell models with seven kinematic parameters. *Comput. Meth. Appl. M.* 194, 2336–2362 (2002)

A. Ibrahimbegovic, R. L. Taylor, 'On the role of frame-invariance in structural mechanics models at finite rotations', *Computer Methods in Applied Mechanics and Engineering*, 191, pp. 5159-5176, (2002).

A. Ibrahimbegovic and D. Markovic. Strong coupling methods in multi-phase and multi-scale modeling of inelastic behavior of heterogeneous structures. *Computer Methods in Applied Mechanics and Engineering*, 192(28–30): 3089–3107, 2003.

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