

Erwan VERRON

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Current position

Associate Professor of Mechanical Engineering, Ecole Centrale de Nantes

Education

Mechanical Engineer, Ecole Centrale de Nantes (France), 1994.
Master degree in Mechanical Engineering, Ecole Centrale de Nantes (France), 1994.
Ph. D., Ecole Centrale de Nantes (France), 1997.

Research interests

Constitutive equations of polymers. Damage, fatigue and fracture of elastomers. Large strain membranes problems: modelling and stability.

Career

Associate Professor at Ecole Centrale de Nantes, 2003- .
Assistant Professor at Ecole Centrale de Nantes, 1998-2003.

Honors and awards

Young researcher French award (Action Jeunes Chercheurs CNRS), 2005.

Professional activities

Co-chairman of the recruiting board, Ecole Centrale de Nantes, 2004 - .
Recruiting board, Ecole Centrale de Nantes, 2002 - .

Summary of journal publications

Journal	Impact factor	Number of papers
Journal of the Mechanics and Physics of Solids	2.885	2
International Journal for Numerical Methods in Engineering	1.691	2
Other indexed journals		9
Other papers in refereed journals		5

Selected publications (max. 5)

Le Cam J.-B., Huneau B., Verron E. et Gornet L., Mechanism of fatigue crack growth in carbon black filled natural rubber, *Macromolecules*, 37(13), 5011-5017, 2004.

Chagnon G., Verron E., Gornet L., Marckmann G. et Charrier P., On the relevance of continuum damage mechanics for the Mullins effect in elastomers, *J. Mech. Phys. Solids*, 52(7), 1627-1650, 2004.

Verron E. et Marckmann G., Inflation of elastomeric circular membranes using network constitutive equations, *Int. J. Non-Linear Mech.*, 38(8), 1221-1235, 2003.

Marckmann G., Verron E., Gornet L., Chagnon G., Charrier P. et Fort P., A theory of network alteration for the Mullins effect, *J. Mech. Phys. Solids*, 50(9), 2011-2028, 2002.

Verron E., Marckmann G. et Peseux B., Dynamic inflation of non-linear elastic and viscoelastic rubberlike membranes, *Int. J. Numer. Meth. Engrg.*, 50(5), 1233-1251, 2001.

