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Born 24 December 1969 (Rüsselsheim), Nationality: German, married, 2 children

Scientific Curriculum Vitae

1990-1995	Studies of Mechanical Engineering and Mechanics at TU Darmstadt
1993 - 1994	Scholarship of the German Academic Exchange Service (Deutscher Akademischer Austausch Dienst, DAAD) to study at the UC Berkeley, USA
1995	Graduation in Mechanics, TU Darmstadt (Diploma, with distinction)
1995 - 2001	Research Assistant at the Institute for Mechanics, TU Darmstadt
2001	PhD in Mechanics, TU Darmstadt (Dr.-Ing., with distinction)
2001 - 2002	Postdoctoral stay at Laboratoire de Modélisation en Mécanique (LMM), Université Pierre et Marie Curie (UPMC), Paris, France
2002 - 2004	Research Assistant at the Institute for Mechanics, TU Darmstadt
2004 - 2009	Assistant Professor (Juniorprofessor) for Mechanics at the Institute for Mechanics, TU Darmstadt
2005	Habilitation, venia legendi for Mechanics at the Institute for Mechanics, TU Darmstadt
2008	Call for W2-Professorship „Numerische Strukturanalyse mit Anwendung in der Schiffs-technik, TU Hamburg-Harburg
2008	Call for W2-Professorship „Technische Mechanik“, FH Frankfurt a. Main
2009	Call for W3-Professorship „Technische Mechanik“, Universität Kassel
2009	Call for W3-Professorship „Angewandte Mechanik“, TU Braunschweig
since 2009	Full Professor (W3) at the University of Kaiserslautern, Institute of Applied Mechanics

Administrative Activities

since 1996 Member of the International Society for Applied Mathematics and Mechanics e.V. (GAMM)

since 2003 Member of the European Mechanics Society (EuroMech)

since 2005 Member of the Materials Research Society (MRS)

since 2007 Member of the GAMM Activity Group "Multiscale Material Modeling"

since 2009 Board Member of the "Fam. Dr. Jürgen Ziegler Stiftung"

since 2010 Board Member of the "Professor Dr. Hans Georg und Liselotte Hahn-Stiftung"

since 2012 Member of the Editorial Board of "Archive of Applied Mechanics"

since 2012 Member of the Steering Committee 1, TU Kaiserslautern

since 2013	Speaker of the GAMM-Activity group “Phase field modeling” (GAMM-Fachausschuss “Phasenfeldmodellierung”)
since 2014	Vice secretary of GAMM
since 2015	Student dean (Studiendekan) of the Department of Mechanical and Process Engineering, TU Kaiserslautern

Most Important Publications (2011-2016)

Books

- [1] Gross, D.; Ehlers, W.; Wriggers, W.; Schröder, J.; Müller, R.: Formeln und Aufgaben zur Technischen Mechanik 1 – Statik, Springer, 2013
- [2] Gross, D.; Ehlers, W.; Wriggers, W.; Schröder, J.; Müller, R.: Formeln und Aufgaben zur Technischen Mechanik 1 – Elastostatik, Hydrostatik, Springer, 2014
- [3] Gross, D.; Ehlers, W.; Wriggers, W.; Schröder, J.; Müller, R.: Formeln und Aufgaben zur Technischen Mechanik 1 – Kinetik, Hydrodynamik, Springer, 2015
- [4] Dineva, P.; Gross, D.; Müller, R.; Rangelov, T.: Dynamic Fracture of Piezoelectric Materials - Solution of Time-Harmonic Problems via BIEM, Springer, 2014

Peer-Reviewed Publications

- [5] Kuhn, C.; Müller, R.: A new finite element technique for a phase field model of brittle fracture, Journal of Theoretical and Applied Mechanics (2011), pp. 1115-1133.
- [6] Xu, B.-X.; Müller, R.; Theis, A.; Klassen, M.; Gross, D.: Dynamic analysis of dielectric elastomer actuators, Appl. Phys. Letters (2012), 100, pp. 112903.
- [7] Schrade, D.; Müller, R.; Gross, D.: On the physical interpretation of material parameters in phase field models for ferroelectrics, Arch. Appl. Mech. (2013), 83, pp. 1393-1413.
- [8] Spahn, J.; Andrä, H.; Kabel, M.; Müller, R.: A multiscale approach for modeling progressive damage of composite materials using fast Fourier transforms, Comput. Methods Appl. Mech. Engrg. (2014), 268, pp. 871-883.
- [9] Kuhn, C.; Schlüter, A.; Müller, R.: On degradation functions in phase field fracture models, Comp. Mater. Sci. (2015), 108, pp. 374-384.
- [10] Wang, T.; Li, X. Y.; Zhang, X.; Müller, R.: Fundamental solutions in a half space of two-dimensional hexagonal quasicrystal and their applications, J. Appl. Phys. (2015), 117, pp. 15904.

Other Publications