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Hysteresis Design of Magnetic Materials for Efficient Energy Conversion

Tuesday, 01 Dec. 2020, 9:00 s.t., UDE, Zoom



Prof. Dr. Dieter Suess

Department of Physics,

University of Vienna, Austria

From inverse magnetic design to additive manufactured soft and hard magnets

About the speaker:

Dieter Suess was born in Vienna in 1975. He studied 1994 - 1999 at the Vienna University of Technology and completed his dissertation "Micromagnetic Simulations of Antiferro-and Ferromagnetic Structures for Magnetic Recording" in 2002, which was partly conducted in Perth (Australia). In summer 2006 he worked as a consultant at Komag (today Western Digital) in San Jose (California) to support the product realization of his proposed concept "Exchange Spring Media" for hard disks, which is used in commercial hard disks since 2007. In June 2007 Dieter Suess habilitated in the field of Computational Materials Science at the Vienna University of Technology. Since 2008 he is project manager of several FWF, WWTF and company projects and since June 2013 head of the Christian Doppler Laboratory "Advanced Magnetic Sensing and Materials". Since 2018, Dr. Suess is professor at the Faculty of Physics of the University of Vienna. Since 2018 he is head of the "Functional Materials" group at the University of Vienna.

Dieter Suess has published about 200 papers in scientific journals. In his research he deals with magnetisation dynamics and thermal activation in magnetic materials with special focus on applications for memory and sensors, spintronics, inverse problems up to 3D printing of magnets.

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