

TITLE:

**HOLZPHYSIK. Physik des Holzes und der Holzwerkstoffe /
WOOD PHYSICS. Physics of Wood and Wood-Based Materials (in
German language)**

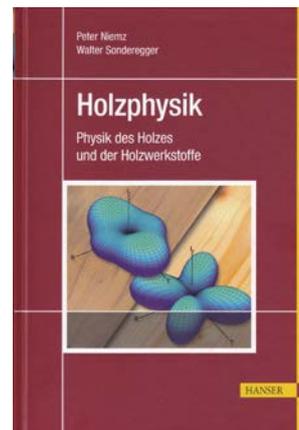
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For orders, please contact the author at the following address: www.hanser-fachbuch.de



SHORT PRESENTATION:

This book is a „must have” for every student, teacher or researcher who deals with wood. The book approaches a basic topic in wood science and technology, namely that referring to the physical and mechanical properties and behaviour of solid wood and of various other wood-based materials, such as: solid wood panels, Glulam, plywood, Parallam and other veneer-based composites, particleboards, fibreboards, various sandwich-type wood-based panels, wood-plastic composites.

The 45-years long teaching & research experience of Prof.Dr.Ing.habil.Dr.h.c. Peter Niemz is valorized in this publication, which provides in a modern and most comprehensive manner, both the theoretical basis of wood physics, with lots of systematic classifications, and the most recent results, obtained with state-of-the-art measuring and testing techniques.

The book comprises 18 chapters, starting with a short history of wood physics, then going into the structure and properties of wood and wood-based materials, continuing with wood-moisture relations, density, thermal properties, electrical properties, acoustical properties, friction, optical properties, corrosion and ageing, mechanical properties, stresses and deformations, along with the specific testing methods and modelling opportunities.

115 tables with characteristic values and 322 figures richly sustain the scientific character of each approached subject. Each chapter is followed by a list of references, which sum up over 800 titles, out of which 140 belong to the authors.

The book is able to stimulate any reader. It gives us a great perspective of up-to-date research results, it offers a huge database of valuable material values, but it also generates an appetite for improved knowledge and expertise.

Our deepest gratitude to the authors who made this extraordinary effort to lay in page their knowledge and expertise, as a gift to all „wood” generations of today and tomorrow.

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