

**Editor**

**Deutsche Gesellschaft  
für Materialkunde e. V.**



**Managing Editors**

G. Petzow  
M. Rühle  
Max-Planck-Institut für Metall-  
forschung, Heisenbergstr. 5  
D-70569 Stuttgart, Germany  
P. P. Schepp  
DGM e. V., Hamburger Allee 26  
D-60486 Frankfurt, Germany

**HANSER**

Carl Hanser GmbH & Co  
Postfach 86 04 20  
D-81631 München, Germany  
Tel.: 0 89/9 98 30-0  
Fax: 0 89/98 48 09  
<http://www.hanser.de>  
E-mail: [info@hanser.de](mailto:info@hanser.de)  
Distribution: 0 89/9 98 30-1 02  
Advertising: 0 89/9 98 30-2 15

---

<b>Editorial/Editorial</b> . . . . .	2
--------------------------------------	---

---

**Aufsätze/Articles**

---

<b>E. Hornbogen, G. Brückner, G. Gottstein</b> Microstructure and texture of ausformed NiTi . . . . .	3
<b>J. J. Moverare, M. Odén</b> Anisotropic high cycle fatigue behaviour of duplex stainless steels: influence of microstresses . . . . .	7
<b>Y. Wang, M. Valdez, S. Sridhar</b> Liquid and solid inclusions at advancing steel solidification fronts . . . .	12
<b>Á. Cziráki, I. Gerócs†, L. K. Varga, I. Bakonyi, U. Falke, H. D. Bauer, K. Wetzig</b> Structural differences between the nanocrystalline soft magnetic Fe <sub>73.5</sub> Si <sub>13.5</sub> B <sub>9</sub> Nb <sub>3</sub> Cu <sub>1</sub> and Fe <sub>86</sub> Zr <sub>7</sub> B <sub>6</sub> Cu <sub>1</sub> alloys . . . . .	21
<b>Y. Erarslan, M. Çiğdem</b> The dependence of hot deformation-recrystallisation properties of Al-6063 (Etial-60) alloy on homogenisation practice . . . . .	28
<b>G. Bruno</b> Relaxation of residual stress in AISI 347 welded pipe: a time-of-flight neutron diffraction study . . . . .	33
<b>S. Takajo†, T. Yamashita, A. Matsuzaki, O. Kondo</b> Excellent plasticity revealed in high purity Si steels by the addition of Cr . . . . .	42
<b>T. Studnitzky, B. Onderka, R. Schmid-Fetzer</b> Phase formation and reaction kinetics in the vanadium–tin system. . . .	48
<b>W. Grünberger, M. Heilmaier, L. Schultz</b> Microstructure and mechanical properties of Cu–Ag microcomposites for conductor wires in pulsed high-field magnets . . . . .	58
<b>X. Wang, Y. Zhou</b> Solid–liquid reaction synthesis and simultaneous densification of polycrystalline Ti <sub>2</sub> AlC . . . . .	66
<b>A. Orlová</b> Dislocation glide on non-compact crystal planes in copper . . . . .	72
<b>V. Hauk, B. Krüger</b> Residual stresses in Cu–Fe–TiC sintered materials after grinding and after shot peening . . . . .	76
CORRIGENDUM	
<b>D. Lundström, B. Karlsson, M. Gustavsson</b> Anisotropy in thermal transport properties of cast $\gamma$ -TiAl alloys . . . . .	86

**Mitteilungen/Notifications**

---

Instructions to authors . . . . .	81
Richtlinien für Autoren . . . . .	82
Personelles/Personal . . . . .	83
Bücher/Books . . . . .	84
Tagungen/Conferences . . . . .	85
Impressum/Imprint . . . . .	86

---