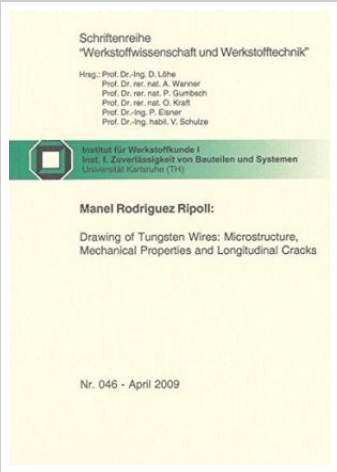

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Drawing of Tungsten Wires: Microstructure, Mechanical Properties and Longitudinal Cracks

By Manel Rodriguez Ripoll

Shaker Verlag Mrz 2009, 2009. Taschenbuch. Condition: Neu. Neuware - This work deals with the experimental and numerical study of the wire drawing process of tungsten wires. Special attention is paid to actual industrial problems, such as wire splitting. Tungsten wires with a diameter range 3.5 to 0.35 mm are experimentally characterized. The microstructure of the as-received wires is initially observed on etched samples using light microscopy. A more detailed insight into the microstructure requires the use of electron backscatter diffraction. The global texture is obtained using neutron diffraction. The determination ofthe grain shape and orientation is crucial for performing realistic simulations. The mechanical response of the investigated material is obtained via tensile and compression tests in a wide range of temperatures. Selected tested samples are investigated using microscopy techniques and X-ray diffraction in order to evaluate microstructure and texture evolution throughout the deformation. 163 pp. Englisch.

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