



Characterization of the microstructure, grain boundaries and texture of nanostructured electrodeposited CoNi by use of Electron Backscatter Diffraction (EBSD)

By Alice Bastos da Silva Fanta

Cuvillier Verlag Okt 2008, 2008. Taschenbuch. Book Condition: Neu. 211x147x17 mm. Neuware - The mechanical behaviour of electrodeposited nanocrystalline metals have been the subject of considerable research in the past decade. This interest is strongly related to the unexpected response of these materials to deformation. However, since the properties of materials are direct related to their microstructure characteristics, it is remarkable how little research on the microstructure and texture of nanocrystalline deposits has been conducted in this time. The need of a systematic study of the microstructural characteristics of these materials has, therefore, motivated this work, which deals with a detailed characterization of nanostructured electrodeposited CoNi. The aim of this work was, however, not only to describe the general microstructure and texture development in CoNi electrodeposited film, but to understand the fundamentals of their formation and therefore provide fundamental knowledge for further studies. 192 pp. Englisch.



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