

AD-A211 905

ANISOTROPY AND MICROSTRUCTURE OF HIGH-COERCIVITY RARE EARTH PERMANENT MAGNETS

FINAL TECHNICAL REPORT

June 1989

by

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CONTRACT NUMBER DAJA 45-86-C-0010

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Anisotropy And Microstructure Of High Coercivity Rare Earth Iron Permanent Magnets

M Tight

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Anisotropy And Microstructure Of High Coercivity Rare Earth Iron Permanent Magnets:

Anisotropy and Microstructure of High-Coercivity Rare Earth Iron Permanent Magnets, 1989 In Nd₂Fe₁₄B based permanent magnets the coercivity is in practice only 20-40 % of the theoretical limits The aim of this study is to investigate Nd-Fe-B based compounds with respect to their magnetic anisotropy behaviour and to characterize the microstructure of sintered Nd-Fe-B based permanent magnets The anisotropy field H_A was determined by using the Singular Point Detection SPD technique and the microstructural investigations were carried out on a JEOL 200 CS analytical transmission electron microscope equipped with a high take off energy dispersive EDS X-ray analyzer Keywords Magnetic anisotropy Anisotropy field pulsed field technique Microstructure electron microscopy intrinsic coercive force Nd-Fe-B permanent magnets

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web summary in this chapter we talked about anns deep learning and the elements of a deep learning model we then installed tensorflow and learned about the core concepts that we use in tensorflow in the next chapter we will perform predictive analytics with tensorflow and deep learning

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web we discussed the importance of predictive analytics in the modern enterprise and went through some industry use cases to appreciate the real world implications of its implementation we then went slightly deep into the statistics and mathematics behind different predictive analytics algorithms

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web decision tree example import the library required for this example create the decision tree regression model from sklearn import tree dtree tree decisiontreeregressor min samples split 20 dtree fit x train y train print accuracy dtree predict use shap explainer to interpret values in the test set ex shap treeexplainer dtree

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web summary in this chapter we talked about feature selection methods how to distinguish between useful features and features that are not likely to be helpful in prediction we talked about dimensionality reduction and we learned how to perform pca in scikit learn