

Ball Milled Nano-Structured Stainless Steel Powders: Fabrication and Characterization (Paperback)



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(Hillard Macejkovic)

BALL MILLED NANO-STRUCTURED STAINLESS STEEL POWDERS: FABRICATION AND CHARACTERIZATION (PAPERBACK)

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Ebooks2go Inc, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Chapter 1 discusses about introduction of different types of stainless steel and ball milling methods. This chapter also explains the mill fabrication, mill mechanics. Chapter 2 contains the synthesis of nano-structured duplex and ferritic stainless steel powders by dual drive planetary ball mill. Chapter 3 comprises of detail study of optimization of milling parameters such as process controlling agents, ball to powder weight ratio, milling speed and milling atmospheres on particle size, phases and morphology of stainless steel powders. Chapter 4 explains the fabrication of yttria dispersed and yttria free duplex and ferritic stainless steel by conventional and SPS methods and the detail study of effect of yttria addition, sintering temperature, sintering atmosphere and sintering methods on the morphology, phase transformation, density and hardness of duplex and ferritic stainless steel. Chapter 5 explains the non-lubricated sliding wear behaviour of nano-yttria dispersed and yttria free duplex and ferritic stainless steel fabricated by conventional and SPS techniques against a diamond indenter. Chapter 6 consists of the corrosion studies of SPS consolidated yttria dispersed and yttria free duplex and ferritic stainless steel by linear sweep voltammetry. In chapter 7, we discussed the electrochemical sensitivity applications of duplex and yttria dispersed duplex stainless steel powders in detecting biologically active compounds like folic acid. This chapter includes the optimization of electrochemical properties such as concentration of analyte, pH, scan rate and concentration of modifiers to study the electrocatalytic properties of duplex and yttria dispersed duplex stainless steel.



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