
Investigation Magnetron Sputtered Pure Doped

investigation of pvd-dlc thin films manufactured using ... - ous ubm/hipims sputtered pure chromium metal adhesion layer followed by the ramped introduction of nitrogen reactive gas to the plasma to generate a dense crn interlayer. **amorphous zr-based thin films fabricated by magnetron ...** - 1 amorphous zr-based thin films fabricated by magnetron sputtering for potential application in hydrogen purification shahrouz nayeboassadri*, daniel smith, john speight, david book **x-ray photoelectron spectroscopy investigation of ...** - x-ray photoelectron spectroscopy investigation of magnetron sputtered mgetieh thin films i.j.t. jensena*, a. thøgersenb, ... investigation hydrogen was introduced to the mgeti nano-cluster model, revealing very stable h sites at the interface between mg and ti, with hydrogenation energies down to 115 kj/(mol h 2). it was found that with respect to the mixing enthalpy, which is the cohesive ... **microstructure of magnetron sputtered amorphous sio films ...** - microstructure of magnetron sputtered amorphous sio x films: formation of amorphous si core-shell nanoclusters wa li zhang school of mechanical and aerospace engineering, nanyang technological university, 50 nanyang avenue, **effect of pre-zinc coating on the properties and structure ...** - structure of dc magnetron sputtered copper thin film on aluminium . arun augustin, k. rajendra udupa, udaya bhat k. * department of metallurgical and materials engineering, national institute of technology karnataka, mangalore, india . abstract . adhesion strength of the coating to substrate determine its applicability in real time engineering. antimicrobial copper coated touch surface has ... **microstructure, mechanical and tribological properties of ...** - 1 microstructure, mechanical and tribological properties of reactive magnetron sputtered titanium carbide coatings k. polychronopoulou 1,3*, n. demas 1, s. hinder 2 ... **investigation of annealing temperature effect on magnetron ...** - investigation of annealing temperature effect on magnetron sputtered cadmium sulfide thin film properties e ... ethanol, and dried immediately with pure nitrogen gas to remove surface contamination and achieve good adhesion of layer to substrates [14]. the sputter chamber was evacuated to a high vacuum of 8.9×10^{-6} torr by the assistance of rotary and turbo pumps. prior to the sputter-ing ... **niobium-niobium oxide multilayer coatings for corrosion ...** - during current investigation, magnetron sputtered niobium and niobium oxide were chosen as the candidates for protective coatings because of their superior chemical **invitro investigation of magnetron sputtered coatings based ...** - mental composition of the coatings depended on the composition of the target to be sputtered. the coatings the coatings were heated in air for 3 hours to the temperature 700°c with the aim of changing their structure. **studies on structural and optical properties of dc ...** - studies on structural and optical properties of dc reactive magnetron sputtered zro 2 thin films 26 diffusion pump and rotary pump combination. pure argon and oxygen were used as sputter and reactive gases **annealing effect on the physical properties of dc reactive ...** - film, the target was sputtered in pure argon atmosphere for 10 min to remove oxide layer if any on the surface of the target. nio thin films were deposited on unheated substrates by keeping the other deposition conditions such as **investigation of the role of sputtered particles on the ...** - the rf magnetron sputtering plasma reactor was described in details elsewhere [1]. in the present in the present work, the discharge was sustained in pure ar at a pressure of 5 mtorr. **effect of sputtering pressure and temperature on dc ...** - effect of sputtering pressure and temperature on dc magnetron sputtered crn films h. n. shah 1, r. jayaganthan *1 and d. kaur 2 chromium nitride thin films were deposited on si(100) substrate by using dc magnetron

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