
Investigations Magnetron Sputtered Tantalum Oxide

investigations on magnetron sputtered tantalum oxynitride ... - migration of the n atoms from grain boundaries and interstitial positions. taking into account that oxygen is present in the sample, it is possible that these hexagonal crystals contain some o atoms, as **optical properties of d.c. magneto sputtered tantalum and ...** - magnetron sputtered nanostructured titanium thin films that contain only pure titanium peaks $k\alpha$ and $k\beta$ at 4.5 kev and 4.9 kev, respectively without any impurity. **sri venkateswara university:: tirupati** - publication of books: 1) investigations on magnetron sputtered tantalum oxide films for microelectronic device applications, s.v. jagadeesh chandra, s. uthanna and g. mohan rao, lap lambert academic **electrical and photocatalytic behaviour of ta₂o₅ ...** - electrical and photocatalytic behaviour of ta₂o₅ magnetron sputtered thin solid films. daniel crista1, aurel crisan1, nuno barradas2, eduardo alves2, pedro costa3, senen lanceros-méndez3 ... **tantalum carbide and nitride diffusion barriers for cu ...** - tantalum carbide and nitride diffusion barriers for cu metallisation t. laurila, ... however, according to our investigations thin elemental ta barrier layers may not possess sufficient stability when in contact with si and cu[4]. in order to improve the performance of the barrier layers it is essential to understand the underlying mechanisms leading to the failure. this can be achieved by ... **deposition of niobium and other superconducting materials ...** - deposition of niobium and other superconducting materials with high power impulse magnetron sputtering: concept and first results* andré anders #, rubeen j. mendelsberg, sunnie lim, ma tthijs mentink, jonathan l. slack, and **characterization of the solid state properties of anodic ...** - magnetron sputtered ta, nb and ta-nb alloys ... tantalum-niobium mixed oxides for microelectronic components are usually prepared by high vacuum techniques (physical and chemical vapour depositions, atomic layer deposition) .4-7 in this work we propose to prepare these oxides by anodizing in suitable solutions sputter-deposited nb-ta alloys. this electrochemical room temperature process ... **tailoring the texture of magnetron sputtered ta films by ...** - monolayers to tailor the texture of the magnetron sputtered tantalum (ta) films. as characterized by x-ray diffraction (xrd) techniques, dendrimer-mediated films developed a (330) preferred orientation in the tetragonal β -ta, which is in contrast to the (002) preferred orientation on bare si substrates. variation of the sputtering conditions and the generation of the dendrimers, alters the ... **corrosion behaviour of magnetron sputtered a- and b-ta ...** - corrosion behaviour of magnetron sputtered a- and b-ta coatings on aisi 4340 steel as a function of coating thickness s. maeng a*, l. axe a, t.a. tyson b, l. gladczuk c, m. sosnowski c **hybrid hipims and dc magnetron sputtering deposition of ...** - the results revealed that, both the dc magnetron and hybrid-sputtered tin coatings exhibited dense columnar morphology, a single nacl-type cubic crystalline phase with strong (220) texture, and good adhesion property. **aluminum and tantalum doping of sputtered tio₂ thin films** - aluminum and tantalum doping of sputtered tio₂ thin films . inga goetz1, rong liu2, richard wuhrer3 and leigh sheppard4. 1 flensburg university of applied sciences, germany **coatings used in space - materion** - the pulsed dc magnetron sputtered coating exhibits superior stability compared to the e-beam deposition process. the cover glass can be a rigid glass or the newly introduced silicone-based flexible cover, and is cemented to the pv cell

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