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Metallic Films For Electronic Optical

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11 Optical properties of metallic films 547 D. Shelton,Plasmonics Inc., USA 11.1 Introduction 547 11.2 TheDrudeand Sommerfeld models 548 11.3 Deviations fromthe Drude-Sommerfeldmodeldue to electronic bandstructure 554 11.4 Optical properties of metallic thin films at infrared frequencies 557 11.5 Optical skin effects in thin metallic films 558

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The optical properties of metallic films, their relation to the low frequency electronic properties and how the conductivity and permittivity of the metal changes as the frequency increases are described by use of the Drude and Sommerfeld models.

Optical properties of metallic films - ScienceDirect

We present models for the optical functions of 11 metals used as mirrors and contacts in optoelectronic and optical devices: noble metals (Ag, Au, Cu), aluminum, beryllium, and transition metals (Cr, Ni, Pd, Pt, Ti, W). We used two simple phenomenological models, the Lorentz-Drude (LD) and the Brendel-Bormann (BB), to interpret both the free-electron and the interband parts of the ...

OSA | Optical properties of metallic films for vertical ...

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Optical properties of polycrystalline metallic films ...

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Terahertz transparency of optically opaque metallic films. Zhengyong Song 1, Zhen Gao 1, ... As compared to the microwave electronic and optical photonic technologies, ... may substantially degrade the device performance can become issues when using freestanding multilayers plasmonic metal films at optical frequencies.

Terahertz transparency of optically opaque metallic films ...

However, several other metallic films properties can be largely tuned by thickness and nanostructure control, from mechanical ones to optical ones. In addition, recently, great interest has been given to the plasmonic properties of thin nanostructured and nano-patterned metallic films, in the fabrication of high-sensitivity optical sensors (exploiting, for example, Surface-Enhanced Raman ...

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Hole-induced electronic and optical transitions in ...

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