

The Handbook on Optical Constants of Metals: In Tables and Figures

Sadao Adachi



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This book presents data on the optical constants of metal elements (Na, Au, Mg, Hg, Sc, Al, Ti, β -Sn, V, Cr, Mn, Fe, La, Th, etc.) semimetal elements (graphite, Sb, etc.), metallic compounds (TiN, VC, TiSi₂, CoSi₂, etc.) and high-temperature superconducting materials (YBa₂Cu₃O₇₋₈, MgB₂, etc.). A complete set of the optical constants are presented in tabular and graphical forms over the entire photon-energy range. They are: the complex dielectric constant $\varepsilon(E)=\varepsilon_1(E)+i\varepsilon_2(E)$, the complex refractive index $n^*(E)=n(E)+ik(E)$, the absorption coefficient $\alpha(E)$ and the normal-incidence reflectivity R(E). The book will aid many who are interested to know the optical constants of the metals, semimetals, metallic compounds and high-temperature superconducting materials in the course of their work.

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