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Sommario/riassunto

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 (YBa₂Cu₃O_{7-d}, 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 $\epsilon(E) = \epsilon_1(E) + i\epsilon_2(E)$, the complex refractive index $n^*(E) = n(E) + ik(E)$, the absorption coefficient $a(E)$ and the