

Abstract Submitted
for the DAMOP05 Meeting of
The American Physical Society

Optical and Electronic properties of some Interface Materials D.

SINGH, Department of Physics and Ins. Engg., M.M. Engg. College, Mullana, Ambala (affiliated Kurukshetra University, Kurukshetra), Haryana, India — The interface materials are of great importance in microelectronic device because of their role for the electrical, optical and electronic characteristics. This paper reports electronics and optical properties of some such materials used as interface like Aluminum Oxide etc. Ab-initio self-consistent studies are carried out using density functional theory methods. These studies include like band structure, Density of state, optical conductivity and dielectric coefficient etc. Results are compared with earlier available reported work and discussed in detail.

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Date submitted: 19 Apr 2005

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