
CHAPTER 36

OPTICAL PROPERTIES OF SEMICONDUCTORS

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36.1 GLOSSARY

A	power absorption
B	magnetic field
c	velocity of light
D	displacement field
d	film thickness
E	applied electric field
E_c	energy, conduction band
E_{cb}	exciton binding energy
E_g	energy band gap
E_{H1}	hydrogen atom ionization energy = 13.6 eV
E	electric field
E_L^z	Landau level energy
E_v	energy, valence band
e_i	ionic charge
g^*	effective g-factor
K	phonon wave vector
k	extinction coefficient
k_B	Boltzmann's constant
k	electron/hole wave vector
L_{cp}	coupled LO phonon-plasmon frequency
m_e^*	electron effective mass
m_h^*	hole effective mass

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