
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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web apr 15 2023 in this paper we have proposed a density based traffic control system using proteus 7 the rest of the paper has been structured as follows in sect 2 we have discussed the existing literature and in sect 3 we have described our proposed work along with the operational model

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web may 31 2021 this section deals with a review of previous related work on density based smart traffic light control systems for emergency vehicles naga harsha et al the author lists some of the ways to improve the traditional traffic system some of the methods listed include the usage of infrared sensors ultrasound sensors camera modules inductive

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web may 19 2018 it allocates equal time slots to each road irrespective of the traffic density this creates unnecessary waiting for drivers which is not possible every time therefore we propose density based traffic control system which allocates different time slots to each road according to vehicle density

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web sep 1 2020 the goal of this work is to build a density based dynamic traffic signal system in which the signal timing changes automatically dependent on the traffic density at every given