PHYSICAL ELECTRONICS

A Si bor 0.1 km long 100 km2 in cross sectional area is doped with 1017/cm3 phosphorous Find the current at 300 k with lov applied Repeat for a S; bar

1 Am long.

An = 1300 cm2 /Vs

V, n, A, L, A

J: 6 E

I = nq ln V

On: nq An + 88.40.

12>7 P

No = n.

(Mm)

I = nq Jln V A.

16 x 13 0 x 10-2

= 18 1/1m3 x 1.6 x 10 19 C x 1300 cm2 x 100 lm2

Problems In Physical Electronics

Aldert Van der Ziel

Problems In Physical Electronics:

Problems in Physical Electronics Ronald L. Ferrari,1973 *Problems in Physical Electronics* Ronald L. Ferrari, Andrzej Karol Jonscher, 1989 **Semiconductor Physical Electronics** Sheng S. Li,2012-12-06 The purpose of this book is to provide the reader with a self contained treatment of fundamen tal solid state and semiconductor device physics The material presented in the text is based upon the lecture notes of a one year graduate course sequence taught by this author for many years in the Department of Electrical Engineering of the University of Florida It is intended as an introductory textbook for graduate students in electrical engineering However many students from other disciplines and backgrounds such as chemical engineering materials science and physics have also taken this course sequence and will be interested in the material presented herein This book may also serve as a general reference for device engineers in the semiconductor industry. The present volume covers a wide variety of topics on basic solid state physics and physical principles of various semiconductor devices The main subjects covered include crystal structures lattice dynamics semiconductor statistics energy band theory excess carrier phenomena and recombination mechanisms carrier transport and scattering mechanisms optical properties photoelectric effects metal semiconductor devices the p n junction diode bipolar junction transistor MOS devices photonic devices quantum effect devices and high speed III V semiconductor devices The text presents a unified and balanced treatment of the physics of semiconductor materials and devices It is intended to provide physicists and mat erials scientists with more device backgrounds and device engineers with a broader knowledge of Solid State Physical Electronics Aldert Van der Ziel, 1958 Problems after each chapter fundamental solid state physics

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