Question 1.13:

Figure shows tracks of three charged particles in a uniform electrostatic field. Give the signs of the three charges. Which particle has the highest charge to mass ratio?

Answer 1.13:

Opposite charges attract each other and same charges repel each other. It can be observed that particles 1 and 2 both move towards the positively charged plate and repel away from the negatively charged plate. Hence, these two particles are negatively charged. It can also be observed that particle 3 moves towards the negatively charged plate and repels away from the positively charged plate. Hence, particle 3 is positively charged.

The charge to mass ratio (emf) is directly proportional to the displacement or amount of deflection for a given velocity. Since the deflection of particle 3 is the maximum, it has the highest charge to mass ratio.

Question 1.14:

Consider a uniform electric field $E = 3 \times 10^3 \, \hat{i}$ N/C.

(a) What is the flux of this field through a square of 10 cm on a side whose plane is parallel to the yz plane?

(b) What is the flux through the same square if the normal to its plane makes a 60° angle with the x-axis?

Answer 1.14:

(a) Electric field intensity, $E = 3 \times 10^3 \, \hat{i}$ N/C

Magnitude of electric field intensity, $|E| = 3 \times 10^3$ N/C

Side of the square, $s = 10$ cm $= 0.1$ m

Area of the square, $A = s^2 = 0.01$ m^2

The plane of the square is parallel to the y-z plane. Hence, angle between the unit vector normal to the plane and electric field, $\theta = 0°$

Flux (ϕ) through the plane is given by the relation,

$\phi = |E| A \cos\theta$

$= 3 \times 10^3 \times 0.01 \times \cos 0° = 30$ N m^2/C

(b) Plane makes an angle of 60° with the x – axis. Hence, $\theta = 60°$

Flux, $\phi = |E| A \cos\theta$

$= 3 \times 10^3 \times 0.01 \times \cos 60°$

$= 30 \times \frac{1}{2}$

$= 15$ N m^2/C

Question 1.15:

What is the net flux of the uniform electric field of Exercise 1.14 through a cube of side 20 cm oriented so that its faces are parallel to the coordinate planes?

Answer 1.15:

All the faces of a cube are parallel to the coordinate axes. Therefore, the number of field lines entering the cube is equal to the number of field lines piercing out of the cube. As a result, net flux through the cube is zero.

Solid State Physics Chapter 1 Solutions

Larry A. Coldren,Scott W. Corzine,Milan L. Mashanovitch

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   Fundamentals Of Solid State Electronics Chih Tang Sah,1991-10-30 This is perhaps the most comprehensive undergraduate textbook on the fundamental aspects of solid state electronics It presents basic and state of the art topics on materials physics device physics and basic circuit building blocks not covered by existing textbooks on the subject Each topic is introduced with a historical background and motivations of device invention and circuit evolution Fundamental physics is rigorously discussed with minimum need of tedious algebra and advanced mathematics Another special feature is a systematic classification of fundamental mechanisms not found even in advanced texts It bridges the gap between solid state device physics covered here with what students have learnt in their first two years of study Used very successfully in a one semester introductory core course for electrical and other engineering materials science and physics junior students the second part of each chapter is also used in an advanced undergraduate course on solid state devices The inclusion of previously unavailable analyses of the basic transistor digital circuit building blocks and cells makes this an excellent reference for engineers to look up fundamental concepts and data design formulae and latest devices such as the GeSi heterostructure bipolar transistors   **Defects and Disorder in Crystalline and Amorphous Solids** Richard Catlow,2012-12-06 The study of defects and disorder in solids remains a central topic in solid state science Developments in the field continue to be promoted by new experimental and theoretical techniques while further impetus for the study of disorder in solids is provided by the growing range of applications of solid state materials in which disorder at the atomic level plays a crucial rOle In this book we attempt to present a survey of fundamental and applied aspects of the field We consider the basic aspects of defective crystalline and amorphous solids We discuss recent studies of structural electronic transport thermodynamic and spectroscopic properties of such materials Experimental and theoretical methodologies are reviewed and detailed consideration is given to materials such as fast ion conductors and amorphous semiconductors that are of importance in an applied context Any survey of this large field is necessarily selective We have chosen to emphasise insulating especially oxidic and semi conducting materials But many of the approaches and techniques we describe apply generally across the entire field of solid state science This volume is based on a NATO ASI held at the Residencia Santa Teresa de Jesus Madrid in September 1991 The Editor is grateful to the NATO Scientific Affairs Division for their sponsorship of this School Thanks are also due to all who participated in and lectured at the school but especially to the organising committee of A V Chadwick G N Greaves M Grigorkiewicz J H Harding and S Kalbitzer C R A   *Stability of the Turnpike Phenomenon in Discrete-Time Optimal Control Problems* Alexander J. Zaslavski,2014-08-20 The structure of approximate solutions of autonomous discrete time optimal control problems and individual turnpike results for optimal control problems without convexity concavity assumptions are examined in this book In particular the book focuses on the properties of approximate solutions which are independent of the length of the interval for all sufficiently large intervals these results

apply to the so called turnpike property of the optimal control problems By encompassing the so called turnpike property the approximate solutions of the problems are determined primarily by the objective function and are fundamentally independent of the choice of interval and endpoint conditions except in regions close to the endpoints This book also explores the turnpike phenomenon for two large classes of autonomous optimal control problems It is illustrated that the turnpike phenomenon is stable for an optimal control problem if the corresponding infinite horizon optimal control problem possesses an asymptotic turnpike property If an optimal control problem belonging to the first class possesses the turnpike property then the turnpike is a singleton unit set The stability of the turnpike property under small perturbations of an objective function and of a constraint map is established For the second class of problems where the turnpike phenomenon is not necessarily a singleton the stability of the turnpike property under small perturbations of an objective function is established Containing solutions of difficult problems in optimal control and presenting new approaches techniques and methods this book is of interest for mathematicians working in optimal control and the calculus of variations It also can be useful in preparation courses for graduate students *Elements of Solid State Physics* Michael N. Rudden,John Wilson,1993-06-07 Elements of Solid State Physics Second Edition M N Rudden and J Wilson University of Northumbria at Newcastle Newcastle upon Tyne UK This textbook provides a basic introduction to the principles of solid state physics and semiconductor devices and will prove essential for first and second year students of physics materials science and electrical electronic engineering courses It assumes no prior knowledge of quantum or statistical mechanics and relies on simple models to illustrate the physical principles However the opportunity has been taken in this edition to extend the concept of energy bands to a consideration of E k curves and certain new material has been added notably relating to superconductivity and optoelectronic devices including lasers following significant developments in these areas Elements of Solid State Physics Second Edition presents the student with an essentially non mathematical approach to the subject Arranged in a logical sequence with many clear illustrations each chapter has a number of worked examples and discussion points as well as questions and answers Readers of this fully revised and updated edition will receive a thorough grounding in the principles of solid state physics and should have sufficient knowledge about modern electronic devices to proceed to more advanced texts in this area Main Contents Some Aspects of Modern Physics Structure of Crystalline Solids Theories of Conduction and Magnetism Energy Bands in Solids Quantum Theory of Conduction Semiconductor Devices **Diode Lasers and Photonic Integrated Circuits** Larry A. Coldren,Scott W. Corzine,Milan L. Mashanovitch,2012-03-02 Diode Lasers and Photonic Integrated Circuits Second Edition provides a comprehensive treatment of optical communication technology its principles and theory treating students as well as experienced engineers to an in depth exploration of this field Diode lasers are still of significant importance in the areas of optical communication storage and sensing Using the the same well received theoretical foundations of the first edition the Second Edition now introduces timely updates in the technology and in focus of the book After 15 years of

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