

13. (a) (i) What are the characteristics required for an optical source? With help of neat diagram, describe the operation of surface emitting LED. (8)
- (ii) A double heterojunction InGaAsP LED emitting at a peak wavelength of 1310 nm has radiative and non radiative recombination times of 25 and 90 ns respectively. The drive current is 35 mA.
- (1) Find the internal quantum efficiency and the internal power level. (3)
- (2) If the refractive index of the light source material is $n = 3.5$, find the power emitted from the device. (2)

Or

- (b) (i) Describe the term External quantum efficiency relating to LASER. (8)
- (ii) A GaAs optical source with refractive index of 3.6 is coupled to a silica fiber that has a refractive index of 1.48. What is the power loss between source and the fiber? (5)
14. (a) (i) Explain in detail about the front end optical amplifiers. (7)
- (ii) Estimate the terms:- Quantum limit and Probability of Error with respect to a receiver with typical values. (6)

Or

- (b) Demonstrate the following in detail :
- (i) Fiber refractive index profile measurement. (7)
- (ii) Fiber cutoff wavelength measurement (6)
15. (a) Explain SONET layers and its frame structure with diagram. (13)

Or

- (b) (i) Define and explain the principle of WDM networks. (7)
- (ii) State the nonlinear effects on optical network performance. (6)

PART C — (1 × 15 = 15 marks)

16. (a) When a current pulse is applied to a laser diode, the injected carrier pair density n within the recombination region of width ' d ' changes with time according to the relationship.

$$\frac{dn}{dt} = \frac{J}{qd} - \frac{n}{\tau}$$

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N Colangelo



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Road Mapping for Quantum Computing and Engineering Mishra, Brojo Kishore, 2022-03-25 Quantum computing is radically different from the conventional approach of transforming bit strings from one set of zeros and ones to another With quantum computing everything changes The physics used to understand bits of information and the devices that manipulate them are vastly different Quantum engineering is a revolutionary approach to quantum technology Technology Road Mapping for Quantum Computing and Engineering explores all the aspects of quantum computing concepts engineering technologies operations and applications from the basics to future advancements Covering topics such as machine learning quantum software technology and technology road mapping this book is an excellent resource for data scientists engineers students and professors of higher education computer scientists researchers and academicians Computer Fundamentals

Manish Soni, 2024-11-13 In the vast landscape of modern technology understanding the fundamentals of computing is akin to possessing a master key that unlocks a world of possibilities This book dedicated to the exploration of computer fundamentals serves as your gateway to comprehending the intricacies of these ubiquitous machines Knowledge of computer fundamentals is not a mere luxury it is an indispensable tool in the arsenal of modern life Whether you re a seasoned professional seeking to deepen your understanding or a curious novice embarking on your first foray into the realm of computing this book is tailored to meet your needs As your companion in this voyage of discovery we offer not just knowledge but guidance Whether you seek to bolster your technical prowess embark on a career in technology or simply satiate your intellectual curiosity this book stands ready to accompany you every step of the way Computers have revolutionised the way we live work and communicate From smartphones and tablets to sophisticated data centres the impact of computing is felt in virtually every aspect of modern society A solid grasp of computer fundamentals not only empowers you to navigate this digital landscape with confidence but also opens doors to countless opportunities in various fields In this book we embark on a journey to explore the fundamental principles that underpin the world of computing Starting with a historical overview of the evolution of computers we delve into the essential components of computer hardware and software covering topics such as data representation operating systems networking logic gates and many more Now the question comes Who Should Read This Book The readership of a Computer Fundamental book extends beyond mere enthusiasts it caters to a diverse array of

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Digital Heritage Marinos Ioannides,Nadia Magnenat-Thalmann,Eleanor Fink,Roko Zarnic,Alex-Yianing Yen,Ewald Quak,2014-11-12 This book constitutes the refereed proceedings of the 5th International Conference on Digital Heritage EuroMed 2014 held in Limassol Cyprus in November 2014 The 84 full and 51 short papers presented were carefully reviewed and selected from 438 submissions They focus on the interdisciplinary and multi disciplinary research concerning cutting edge cultural heritage informatics physics chemistry and engineering and the use of technology for the representation documentation archiving protection preservation and communication of Cultural Heritage knowledge

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