



Note di fotonica (UNITEXT) (Italian Edition)

Vittorio Degiorgio, Ilaria Cristiani

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L'invenzione del laser ha generato una vera rivoluzione nella scienza e nella tecnologia e ha dato luogo alla nascita di una nuova disciplina chiamata Fotonica. Le più importanti applicazioni della Fotonica che hanno un impatto cruciale in molti ambiti della nostra vita sono le comunicazioni in fibra ottica su cui si basa il funzionamento di Internet e del traffico telefonico su grandi distanze, i dischi ottici (CD, DVD, Blue-ray), la sensoristica ottica di tipo industriale e ambientale, la lavorazione dei materiali, l'illuminazione con i LED e la chirurgia.

Questo volume ha come obiettivo quello di colmare un vuoto nel panorama italiano di testi universitari riguardanti la Fotonica. Lo scopo principale è quello di esporre in modo sintetico ma rigoroso i concetti che stanno alla base del funzionamento del laser e della propagazione della luce nella materia, e di descrivere i principali componenti e dispositivi ottici e optoelettronici, quali le fibre ottiche, gli amplificatori, i modulatori e i rivelatori. Il capitolo finale fornisce anche cenni sulle principali applicazioni.

Il livello della trattazione e la scelta degli argomenti rendono il testo particolarmente adatto a un corso semestrale per studenti di Ingegneria e di Fisica, ma il volume può essere utile più in generale per dottorandi, ricercatori e progettisti che desiderino un'introduzione agile ai concetti e ai metodi della Fotonica.

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