



Note di fotonica (UNITEXT for Physics) (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 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, Blu-ray), la sensoristica ottica di tipo industriale e ambientale, la lavorazione dei materiali e la chirurgia con il laser, l'illuminazione con i LED.

Questa seconda edizione contiene diversi ampliamenti e modifiche al testo pubblicato nel 2012, che ha colmato un vuoto nel panorama italiano di testi universitari riguardanti la Fotonica. Dopo avere esposto in modo sintetico ma rigoroso i concetti che stanno alla base del funzionamento del laser e della propagazione della luce nella materia, sono descritti 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. In coda a tutti i capitoli, tranne l'ultimo, sono proposti degli esercizi. 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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