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Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Preface -- Chapter 1 Investigation on Optical Sensors for Heart Rate Monitoring -- 1.1 Introduction -- 1.2 Overview of PPG -- 1.2.1 PPG Waveform -- 1.2.2 Photoplethysmography Waveforms Based on the Origin of Optical Concern -- 1.2.3 Photoplethysmography's Early on and Modern Records -- 1.2.4 Building Blocks of Photoplethysmography -- 1.2.5 Protocol Measurement and Reproducibility -- 1.3 Clinical Application - Heart Rate Monitoring -- 1.4 Summary -- References -- Chapter 2 Adopting a Fusion Approach for Optical Amplification -- 2.1 Introduction -- 2.2 The Mechanism Involved -- 2.3 Types of Amplifier -- 2.3.1 Semiconductor Optical Amplifiers -- 2.3.1.1 Various Phases and Progress of SOA -- 2.3.2 Fiber Raman Amplifiers -- 2.3.3 Fiber Brillouin Amplifiers -- 2.3.4 Doped-Fiber Amplifiers -- 2.4 Hybrid Optical Amplifiers -- 2.4.1 EDFA and SOA Hybrid -- 2.4.2 EDFA and FRA Hybrid -- 2.4.3 RFA and SOA Hybrid -- 2.4.4 Combination of EYDWA as well as SOA -- 2.4.5 EDFA-EYCDFA Hybrid -- 2.4.6 TDFA Along with RFA Hybrid -- 2.4.7 EDFA and TDFA Hybrid -- 2.5

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