

1. Record Nr.	UNINA9910818439203321
Titolo	The collected writings of Franz Liszt . Volume 3 Part 2 : dramaturgical leaves : Richard Wagner. // edited and translated by Janita R. Hall-Swadley ; foreword by Nicolas Dufetel
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ISBN	1-4422-7352-6 1-4422-7353-4
Descrizione fisica	1 online resource (341 pages) : illustrations
Disciplina	780.924
Soggetti	Composers - Hungary Music - 19th century
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.

2. Record Nr.	UNINA9910619278503321
Autore	Zadok Avi
Titolo	Forward Brillouin Scattering in Standard Optical Fibers : Single-Mode, Polarization-Maintaining, and Multi-Core / / by Avi Zadok, Hilel Hagai Diamandi, Yosef London, Gil Bashan
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-031-13599-7
Edizione	[1st ed. 2022.]
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Collana	Springer Series in Optical Sciences, , 1556-1534 ; ; 240
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Soggetti	Fiber optics Telecommunication Materials Detectors Nonlinear optics Acoustics Fibre Optics Microwaves, RF Engineering and Optical Communications Sensors and biosensors Nonlinear Optics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1. Introduction: Interactions Between Guided Optical and Acoustic Waves -- Chapter 2. Guided Acoustic Waves in Standard Single-Mode Fibers -- Chapter 3. Electro-Strictive Stimulation of Guided Acoustic Modes in Standard Single-Mode Fibers -- Chapter 4. Photo-Elastic Perturbations to the Dielectric Tensor due to Guided Acoustic Modes -- Chapter 5. Spontaneous Forward Brillouin Scattering in Standard Single-Mode Fibers -- Chapter 6. Stimulated Forward Brillouin Scattering in Standard Single-Mode Fibers -- Chapter 7. Forward Brillouin Scattering Spectra in Coated Single-Mode Fibers -- Chapter 8. Forward Brillouin Scattering Spectra in Multi-Core Fibers -- Chapter 9. Forward Brillouin Scattering in Polarization Maintaining

Sommario/riassunto

This book, the first dedicated to the topic, provides a comprehensive treatment of forward stimulated Brillouin scattering (SBS) in standard optical fibers. SBS interactions between guided light and sound waves have drawn much attention for over fifty years, and optical fibers provide an excellent playground for the study of Brillouin scattering as they support guided modes of both wave types and provide long interaction lengths. This book is dedicated to forward SBS processes that are driven by co-propagating optical fields. The physics of forward SBS is explained in detail, starting from the fundamentals of interactions between guided optical and acoustic waves, with emphasis given to the acoustic modes that are stimulated in the processes. The realization of forward SBS in standard single-mode, polarization-maintaining and multi-core fibers is then discussed in depth.

Innovative potential applications in sensors, monitoring of coating layers, lasers, and radio-frequency oscillators are presented. This book introduces the subject to graduate students in optics and applied physics, and it will be of interest to scientists working in fiber-optics, nonlinear optics and opto-mechanics.