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Nota di contenuto	Intro -- Foreword -- Preface -- Supercontinuum Generated in Different Media -- Supercontinuum Light Vector Vortex Beams with OAM (L == 1,2,3) in Air -- Conical Emission and Self-Phase Modulation Light from Vector Vortex Beam with OAM (L == 2) in BK7 Glass -- Supercontinuum Light from Calcite -- Supercontinuum Light Generated from Methanol Liquid -- Supercontinuum Light Generated from Plasma Ablation in Air from Copper Foil -- Contents -- Contributors -- 1 Theory of Self-Phase Modulation and Spectral Broadening -- 1.1 Introduction -- 1.2 Optical-Field-Induced Refractive Indices -- 1.2.1 Electronic Mechanism -- 1.2.2 Vibrational Contribution -- 1.2.3 Rotation, Libration, and Reorientation of Molecules -- 1.2.4 Electrostriction, Molecular Redistribution, and Molecular Collisions -- 1.2.5 Other Mechanisms -- 1.3 Simple Theory of Self-Phase Modulation and Spectral Broadening -- 1.4 More Rigorous Theory of Self-Phase Modulation and Spectral Superbroadening -- 1.5 Self-Focusing and Self-Phase Modulation -- 1.5.1 Self-Phase Modulation with Quasisteady-State Self-Focusing -- 1.5.2 Spectral Superbroadening of Ultrashort Pulses in Gases -- 1.5.3 Self-Phase Modulation with Transient Self-Focusing -- 1.6 Conclusion -- References -- 2 Supercontinuum Generation in Condensed Matter -- 2.1 Introduction -- 2.2 Simplified Model -- 2.3 Experimental Arrangement for SPM

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