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Nota di contenuto	CONTENTS -- PREFACE -- ADVANCES IN COPPER LASER TECHNOLOGY:KINETIC ENHANCEMENT -- 1. Introduction -- 2. Background -- 2.1. Role of Pre-Pulse Electron Density -- 2.2. Engineering the Pre-Pulse Electron Density -- 3. Operating Characteristics of KE-CVLs -- 3.1. Output Power and Efficiency -- 3.2. Pulse Rate Scaling of KE-CVLS -- 3.3. Specific Average-Output Power Scaling -- 3.4. Temporal Characteristics of KE-CVL Output -- 3.5. Spatial Characteristics of KE-CVL Output -- 3.6. High Beam Quality Operation of KE-CVLs -- 4. Diagnostics of Kinetically Enhanced CVLS -- 4.1. Copper Density Measurement -- 4.2. Computer Modelling of KE-CVLs -- 5. Operation of KE-CVLS in Oscillator-Amplifier Configuration -- 6. High Power UV Generation from KE-CVLs -- MERGING QUANTUM THEORY INTO CLASSICALPHYSICS -- Abstract -- 1. Introduction -- 2. Comparison of Classical and Quantum Electrodynamics -- 2.1. Modes of the Electromagnetic Waves -- 2.2. Elementary Light-Matter Interaction in Classical Optics -- 2.3. The Classical Zero Point Field -- 2.4. The Zero Point Field and the Detection of Low Level Light -- 2.5. Spontaneous Emission and Absorption: Einstein's Coefficients -- 2.6. Mechanism of Emission and Absorption of a Photon -- 2.7. Comparison of Quantum and Classical Electrodynamics -- 3. Some Properties of Nonlinear Waves: The (3+0)D Solitons -- 3.1. The Filaments of Light -- 3.2. Perturbation of a Filament by a Magnetic Nonlinearity -- 4. Tentative Setting of a

Classical Theory Including the Important Quantum Results -- 4.1. Is Matter Made of Electromagnetic (3+0)D Solitons? -- 4.2. Inserting the Quantum Calculation of Energies into the Classical Theory -- 5. Conclusion -- A POSSIBLE SCENARIO FOR VOLUMETRIC DISPLAY THROUGH NANOPARTICLE SUSPENSIONS -- STATISTICAL PROPERTIES OF NONLINEAR PHASE NOISE -- 1. Introduction -- 2. Joint Statistics of Nonlinear Phase Noise and Electric Field -- 2.1. Normalization of Nonlinear Phase Noise -- 2.2. Series Expansion -- 2.3. Joint Characteristic Function -- 3. The Probability Density Function of Nonlinear Phase Noise -- 4. Some Joint Characteristic Functions -- 4.1. Joint Characteristic Function of Nonlinear Phase Noise and Received Intensity -- 4.2. Joint Characteristic Function of Nonlinear Phase Noise and Phase of Amplifier Noise -- 5. Error Probability of DPSK Signal -- 5.1. Phase Distribution -- 5.2. Error Probability -- 5.3. Approximation of Independence -- 5.4. Numerical Results -- 6. Compensation of Nonlinear Phase Noise -- 6.1. Linear Compensation -- 6.2. Nonlinear Compensation.

Sommario/riassunto

Such fields as communications, materials science, computing and medicine are leaping forward based on developments in optics. This series presents leading edge research on optics and lasers from researchers around the globe.

2. Record Nr.	UNINA9910953148603321
Titolo	Globalisation and European integration : critical approaches to regional order and international relations // edited by Petros Nousios, Henk Overbeek and Andreas Tsolakis; with a foreword by Amy Verdun
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Altri autori (Persone)	NousiosPetros <1974-> OverbeekHenk TsolakisAndreas <1980->
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Nota di contenuto	Cover; Globalisation and European Integration; Copyright; Contents; List of figures; List of tables; Notes on contributors; Foreword by Amy Verdun; Preface; Abbreviations and acronyms; Part 1: Explaining European integration: critical approaches; 1. Globalisation and European integration: the nature of the beast; 2. The global financial crisis and the European Union: the irrelevance of integration theory and the pertinence of critical political economy; 3. Neo-liberal Europe and the transformation of democracy: on the state of money and law 4. A Foucauldian perspective on the ethics of EU(ropa): genealogies of liberal governmentPart 2: Supranationality and international competition; 5. The world market, variegated capitalism and the crisis of European integration; 6. The ascendancy of neoliberal competition regulation in the European Community; 7. The European sub-prime?

Financial crisis and the east-European periphery; Part 3: Europe in the global political economy; 8. The Rhineland and the Heartland: European integration in the north Atlantic context; 9. European globalisation and world order politics
10. Globalisation and European integration: the internal and external dimensions of neo-liberal restructuring
11. Global capitalist crisis and the future of the European project; Part 4: Conclusions; 12. The contested reconstruction of the Belle Epoque? Europe 2020, transnational capitalism and the political economy of global restructuring; Postscript; Index

Sommario/riassunto

This book explores the links between European integration and globalisation, and examines the potential for social transformation in the context of the global economic crisis and the resulting EU reforms. Divided into three parts, this book offers both empirical and theoretical analyses of social integration, supranationality and global competition. Drawing on Critical Political Economy research, Neo-Gramscian, Open Marxist, Regulationist and Post-structuralist scholars subject a wide range of European flagship policies in matters of competition, trade and security to critical
