1. Record Nr. UNINA990001270380403321

Autore	Perron, Oskar
Titolo	Algebra / der Perron Oskar
Pubbl/distr/stampa	Berlin : de Gruyter, 1951
Descrizione fisica	Goschens Lehrbycherei
Locazione	MA1
Collocazione	15-B-4-BIS
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Volumi I

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Autore	Zdravkovic Slobodan
Titolo	Nonlinear dynamics of nanobiophysics / / Slobodan Zdravkovic and Dalibor Chevizovich
Pubbl/distr/stampa	Singapore : , : Springer, , [2023] ©2023
ISBN	981-19-5323-6
Descrizione fisica	1 online resource (369 pages)
Disciplina	571.43
Soggetti	Biomechanics Nonlinear mechanics
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Intro -- Contents -- Introduction -- References -- The Insights into Richness of Nonlinear Schrödinger Equation -- 1 Introduction -- 2 Nonlinear Schrödinger Equation -- 2.1 Modulation Instability -- 2.2 Solitons -- 2.3 Breathers -- 2.4 Rogue Waves -- 3 Generalized NLSE --

3.1 Higher-Order NLSE -- 3.2 Driven NLSE with Quadratic-Cubic Nonlinearity -- 4 Applications of Nonlinear Localized Waves in Biology -- 5 Conclusion -- References -- Nonlinear Dynamics of DNA Chain -- 1 DNA Dynamics -- 2 Resonance Mode and DNA Opening -- 3 Demodulated Standing Solitary Wave and DNA-RNA Transcription -- References -- Nonlinear Dynamics of DNA Chain with Long-Range Interactions -- 1 Introduction -- 2 Long-Range Interactions in Biological Systems -- 2.1 Long-Range Interactions of the Kac-Baker Type -- 2.2 Long-Range Interactions of the Power-Law Type -- 2.3 Physical Nature of Long-Range Interactions of the Power-Law Type -- 3 Long-Range Interactions in the HPB Model -- 3.1 Model Hamiltonian -- 3.2 Equations of Motions -- 3.3 Discrete Derivation Operator Technique -- 3.4 Soliton Solutions -- 4 Long-Range Interactions in the HPB Model with Damping Effect -- 4.1 Long-Range Hydrodynamical Damping Forces and Equations of Motions -- 4.2 Dissipative Soliton Solution -- 5 Conclusion -- References -- Trajectories of DNA Kinks -- 1 Kinks of Homogeneous DNA -- 2 Kink Trajectories in Homogeneous DNA -- 2.1 Kink Trajectories in the Case of Absence of External Field -- 2.2 Kink Trajectories in the Case of Constant External Field M0 -- 2.3 Kink Trajectories in the Case of Periodic External Field with Constant Frequency M(t) = M0 cos(2t) -- 2.4 Kink Trajectories in the Case of Periodic External Field with Slowly Varying Frequency M(t) = M0 cos(t - t2 /2) -- 2.5 Kink Trajectories in the Case of on/off External Field -- 3 Kink Trajectories in Inhomogeneous DNA. 3.1 Method of Concentrations -- 3.2 Method of Blocks and Its Application to Kinks of IFNA17 Gene -- 3.3 Kink Trajectories in the pBR322 Plasmid -- 4 Conclusions. Further Development and Perspectives of the Methods of Trajectories -- References -- Conformational B-A-Transition in the DNA Molecule Model -- References -- Soliton Excitations in a Twist-Opening Nonlinear DNA Model -- 1 Twist-Opening Nonlinear Model of DNA Double Helix -- 2 Dispersion Law -- 3 Continuum Approximation -- 4 Nonlinear Schrödinger Equation -- 5 Korteveg-de Vries Equation -- 6 Conclusion -- References -- Vibron Self-trapping in Quasi-One-Dimensional Biomolecules: Non-adiabatic Polaron Approach -- 1 Introduction -- 2 About Energy Processes Inside a Living Cell -- 2.1 Hydrolysis of Adenosine Triphosphate -- 3 Quasi-1D Biomolecules -- 3.1 Proteins: What Is Their Role in the Living Cell? -- 3.2 Proteins: What Is Their Basic Structure? -- 4 Intra-molecular Vibrational Excitation in Biomolecules: Quasi-Free Excitations or Polarons? -- 4.1 The Storage of the Energy Quanta in Biomolecules: Amide-I Mode -- 4.2 A Short Excursion to the Absorption Spectra of the Crystalline Acetanilide -- 4.3 Beyond Davydov Model -- 4.4 Further Investigations in the Framework of Non-adiabatic Polaron Theory -- 5 Theory of Exciton Self-trapped States: Non-adiabatic Polaron -- 5.1 Starting Hamiltonian -- 5.2 Classification of Self-trapped States and Criteria for Their Formation -- 5.3 Vibrons in Biomolecules -- 5.4 Theory of ST States of a Single Vibron Excitation in Quasi-1D Crystal Structure: Method of the Unitary Transformation -- 6 Results and the Discussion -- 7 Conclusion -- 8 Appendix -- 8.1 The Two Useful Relations -- 8.2 Some Important Operator Identities -- 8.3 Formulas of Lang-Firsov Unitary Transformation -- 8.4 The Mean Values of the Functions of Bose Operators -- References. Quantum Correlation Effects in Biopolymer Structures -- 1 Introduction -- 2 Description of Quantum Correlations -- 2.1 Quantum Correlation Functions -- 2.2 Properties of the Quantum Correlation Functions -- 2.3 Quasi-Distribution Functions and Quantum Characteristic Functions -- 2.4 Non-classical Phenomena -- 2.5 Entanglement -- 3 Model Description of Quantum Correlations in Biomolecules -- 3.1 Quantum

Mechanical Model of Protein Molecules -- 3.2 Influence of the Environment -- 3.3 Vibron Quantum Correlations -- 4 Conclusion -- References -- Nonlinear Dynamics of Microtubules -- 1 Introduction -- 2 Longitudinal Models for MT Dynamics -- 2.1 More General Procedure Within Longitudinal Models for MT Dynamics -- 2.2 Application of Morse Potential Energy -- 3 Angular Models for MT Dynamics -- 3.1 A Series Expansion Unknown Function Method Within the -Model for MT Dynamics -- 3.2 General Model for MT Dynamics -- Appendix -- References -- Calcium Signaling Along Actin Filaments in Stereocilia Controls Hair-Bundle Motility -- 1 Calcium Signaling -- 2 Polyelectrolyte Character of Actin Filaments -- 3 Models of Pulsatile Waves of Ca2+ Ions Along Actin Filaments -- 3.1 Electrochemical Model -- 3.2 The Model of F-Actin as a Nonlinear Transmission Line -- 4 Ca2+-Dependent Myosin-Based Hair-bundle Motility Adaptation -- 4.1 The Coupled Dynamics of Adaptation Motors and Transduction Channels of Stereocilia -- 5 Discussion and Conclusions -- References -- Theoretical Investigation of Interacting Molecular Motors -- 1 Introduction -- 2 Molecular Motors -- 3 Theoretical Approach (TASEP) -- 3.1 Boundary Conditions -- 3.2 Update Rules -- 3.3 Monte Carlo Simulations: Numerical Approach -- 3.4 Master Equation -- 3.5 Mathematical Framework -- 3.6 Mean-Field Approximation -- 4 Development of TASEP Models -- 5 Theoretical Model: TASEP with Interactions.
5.1 Model Description -- 6 Conclusion -- References.

3.

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Autore	Koskinen-Koivisto Eerika
Titolo	Her own worth : negotiations of subjectivity in the life narrative of a female labourer / / Eerika Koskinen-Koivisto
Pubbl/distr/stampa	Helsinki : , : Finnish Literature Society / SKS, , [2014] ©2016
ISBN	9789522227539 9789522226181 9789522226099
Descrizione fisica	1 online resource (215 pages) : illustrations
Collana	Open Access e-Books Knowledge Unlatched Studia Fennica ethnologica ; ; 16
Disciplina	305.4823
Soggetti	Women employees - Finland Women metal-workers - Finland Women - Finland - Social conditions - 20th century Sex role - Finland - History - 20th century Biographies. Finland Social life and customs 20th century
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A digital edition of a printed book first published in 2014 by the Finnish Literature Society"
Nota di bibliografia	Includes bibliographical references (pages 175-195) and index.
Nota di contenuto	1. Introduction : understanding her life -- 2. The dialogic research process and analysis -- 3. A working owman : the negotiation of gendered ideals -- 4. Social class : identification and distinction -- 5. Change and continuity in a life narrative -- 6. Conclusion.
Sommario/riassunto	"In this study, I examine the life narrative of a female factory labourer, Elsa Koskinen (nee Kiikkala, born in 1927). I analyze her account of her experiences related to work, class and gender because I seek to gain a better understanding of how changes in these aspects of life influenced the ways in which she saw her own worth at the time of the interviews and how she constructed her subjectivity. Elsa's life touches upon many of the core aspects of 20th-century social change: changes in women's

roles, the entrance of middle- class women into working life, women's increasing participation in the public sphere, feminist movements, upward social mobility, the expansion of the middle class, the growth of welfare and the appearance of new technologies. What kind of trajectory did Elsa take in her life? What are the key narratives of her life? How does her narrative negotiate the shifting cultural ideals of the 20th century?A life story, a retrospective evaluation of a life lived, is one means of constructing continuity and dealing with the changes that have affected one's life, identity and subjectivity. In narrating one's life, the narrator produces many different versions of her/him self in relation to other people and to the world. These dialogic selves and their relations to others may manifest internal contradictions. Contradictions may also occur in relation to other narratives and normative discourses. Both of these levels, subjective meaning making and the negotiation of social ideals and collective norms, are embedded in life narratives.My interest in this study is in the ways in which gender and class intersect with paid labour in the life of an ordinary female factory worker. I approach gender, class and work from both an experiential and a relational perspective, considering the power of social relationships and subject formations that shape individual life at the micro-level. In her narratives Elsa discusses ambivalence related to gendered ideals, social class, and especially the phenomenon of social climbing as well as technological advance.I approach Elsa's life and narratives ethnographically. The research material was acquired in a long-standing interview process and the analysis is based on reflexivity of the dialogic knowledge production and contextualization of Elsa's experiences. In other words I analyze Elsa's narratives in their situational but also socio-cultural and historical contexts. Specific episodes in one’s life and other significant events constitute smaller narrative entities, which I call micro-narratives. The analysis of micro-narratives, key dialogues and cultural ideals embedded in the interview dialogues offers perspectives on experiences of social change and the narrator’s sense of self"