1. Record Nr. UNINA9910139437203321

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| Autore | Castelfranchi Cristiano |
| Titolo | Trust theory : a socio-cognitive and computational model / / Cristiano Castelfranchi, Rino Falcone |
| Pubbl/distr/stampa | Chichester, West Sussex, U.K. : , : J. Wiley, , 2010<br>[Piscataqay, New Jersey] : , : IEEE Xplore, , [2010] |
| ISBN | 1-282-69096-5<br>9786612690969<br>0-470-51985-1<br>0-470-51984-3 |
| Descrizione fisica | 1 online resource (387 p.) |
| Collana | Wiley series in agent technology |
| Altri autori (Persone) | FalconeRino |
| Disciplina | 006.3<br>302/.1 |
| Soggetti | Trust<br>Trust - Simulation methods<br>Artificial intelligence - Psychological aspects<br>Cognitive science |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Includes index. |
| Nota di bibliografia | Includes bibliographical references (p. 354-357) and index. |
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Sommario/riassunto

This book provides an introduction, discussion, and formal-based modelling of trust theory and its applications in agent-based systems This book gives an accessible explanation of the importance of trust in human interaction and, in general, in autonomous cognitive agents including autonomous technologies. The authors explain the concepts of trust, and describe a principled, general theory of trust grounded on cognitive, cultural, institutional, technical, and normative solutions. This provides a strong base for the author's discussion of role of trust in agent-based systems supporting human-computer interaction and distributed and virtual organizations or markets (multi-agent systems). Key Features: . Provides an accessible introduction to trust, and its importance and applications in agent-based systems. Proposes a principled, general theory of trust grounding on cognitive, cultural, institutional, technical, and normative solutions. Offers a clear, intuitive approach, and systematic integration of relevant issues. Explains the dynamics of trust, and the relationship between trust and security. Offers operational definitions and models directly applicable both in technical and experimental domains. Includes a critical examination of trust models in economics, philosophy, psychology, sociology, and AI This book will be a valuable reference for researchers and advanced students focused on information and communication technologies (computer science, artificial intelligence, organizational sciences, and knowledge management etc.), as well as Web-site and robotics designers, and for scholars working on human, social, and cultural aspects of technology. Professionals of ecommerce systems and peer-to-peer systems will also find this text of interest.

2. Record Nr. UNINA9910746286503321

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|---|---|
| Autore | Benhar Omar |
| Titolo | Structure and dynamics of compact stars / / Omar Benhar |
| Pubbl/distr/stampa | Cham, Switzerland : , : Springer International Publishing AG, , [2023]<br>©2023 |
| ISBN | 3-031-35628-4 |
| Edizione | [First edition.] |
| Descrizione fisica | 1 online resource (xi, 169 pages) : illustrations (some color) |
| Collana | Lecture Notes in Physics Series |
| Disciplina | 523.887 |
| Soggetti | Compact objects (Astronomy) |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Intro -- Preface -- Contents -- Acronyms -- Physical and Astronomical Constants -- Part I White Dwarfs -- 1 The Prototype Compact Star -- 1.1 Discovery of White Dwarfs -- 1.2 Formation of White Dwarfs -- 1.3 Properties of the Degenerate Fermi Gas -- 1.3.1 Energy Density -- 1.3.2 Pressure -- 1.3.3 Relativistic Regime -- 1.4 Significance of the Equation of State -- 1.5 Equation of State of White Dwarf Matter -- 1.6 Equilibrium of White Dwarfs and Chandrasekhar Limit -- Part II Neutron Stars -- 2 Neutron Star Structure -- 2.1 Discovery of Neutron Stars -- 2.2 Overview of Neutron Star Composition -- 2.2.1 Outer Crust -- Inverse -decay -- Neutronisation -- 2.2.2 Inner Crust -- Superfluidity and Superconductivity -- 3 The Neutron Star Core -- 3.1 Preamble -- 3.2 Constraints on the Nuclear Matter EOS -- 3.3 Microscopic Models of the Nuclear Matter EOS -- 3.3.1 Empirical Information on Nuclear Forces -- 3.3.2 The Nucleon-Nucleon Interaction -- 3.3.3 Irreducible Three-Nucleon Interactions -- 3.3.4 Non Relativistic Nuclear Many-Body Theory -- The Nuclear Many-Body Problem -- 3.3.5 Nuclear Matter Theory -- G-Matrix Perturbation Theory -- CBF Perturbation Theory -- The Equation of State of Akmal Pandharipande and Ravenhall -- 3.3.6 Relativistic Approaches -- The Relativistic Nuclear Hamiltonian -- 3.3.7 The - Model -- 3.4 The Equation of State of Charge-Neutral -Stable Matter -- Appendix 1: Speed of Sound in Matter and Causality -- Appendix 2: Derivation of Yukawa's OPE Potential -- The Two-Nucleon System -- The Two-Nucleon Interaction -- 4 Exotic Forms of Matter -- 4.1 Stability of Strange Baryonic Matter -- 4.1.1 |

Hyperon Interactions -- 4.2 Deconfinement and Quark Matter -- 4.2.1 The MIT Bag Model -- 4.2.2 The Equation of State of Quark Matter -- 4.3 The Nuclear Matter-Quark Matter Phase Transition -- 4.3.1 Coexisting Phases vs Mixed Phase.
4.3.2 Stability of the Mixed Phase -- 4.3.3 Strange Stars -- Appendix: Partition Function of Fermion Systems -- 5 Neutrino Emission from Neutron Stars -- 5.1 Direct Urca Process -- 5.1.1 Threshold of the Direct Urca Process -- 5.2 Modified Urca Processes -- 5.2.1 Neutron Branch -- 5.2.2 Proton Branch -- 5.3 Neutrino Bremsstrahlung in Nucleon-Nucleon Collisions -- Appendix 1: Neutron -Decay Rate -- Appendix 2: Rate of the Direct Urca Process -- Calculation of  A -- Calculation of  I -- 6 Neutron Star Structure and Dynamics -- 6.1 Hydrostatic Equilibrium -- 6.2 Cooling -- 6.3 Tidal Deformation in Coalescing Binary Systems -- 6.4 Neutron Star Oscillations -- Part III Multimessenger Neutron Star Astronomy -- 7 Observational Constraints on Theoretical Models -- 7.1 The Golden Age of Neutron Stars -- 7.2 Measurements of Mass and Radius -- 7.3 Measurements of the Tidal Deformability -- 7.4 Measurements of Neutron Star Cooling -- 7.5 Towards Multimessenger Astronomy -- References -- Index.

Sommario/riassunto

This book aims at providing an accessible, and yet comprehensive and self-contained discussion of compact stars. After a pedagogical introduction to the physics of white dwarfs, the bulk of the book is devoted to the analysis of the structure and dynamics of neutron stars. A great deal of emphasis is placed on the dynamical models underlying the description of neutron star matter at microscopic level. The analysis of these models is inherently cross-disciplinary - from nuclear and particle physics to astrophysics and condensed matter physics and the relevant concepts are introduced following a didactic approach, drawing largely on the historical development of the field. The impact of the latest experimental data, such as gravitational waves emissions, and the potential of future observational developments in the new era of multimessenger astronomy are extensively discussed. This volume is intended to provide PhD students in physics and astrophysics with solid foundations for their future research career. It is also a useful tool for the broader audience of more advanced readers, working in the fields of nuclear and particle physics as well as gravitational physics.