

1. Record Nr.	UNINA9910903799903321
Autore	Lewin Mathieu
Titolo	Spectral Theory and Quantum Mechanics / / by Mathieu Lewin
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031668784 3031668782
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (345 pages)
Collana	Universitext, , 2191-6675
Disciplina	515.7222
Soggetti	Operator theory Mathematical physics Differential equations Quantum theory Operator Theory Mathematical Physics Differential Equations Quantum Physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1 Introduction to quantum mechanics: the hydrogen atom -- 2 Self-adjointness -- 3 Self-adjointness criteria: Rellich, Kato & Friedrichs -- 4 Spectral theorem and functional calculus -- 5 Spectrum of self-adjoint operators -- 6 N-particle systems, atoms, molecules -- 7 Periodic Schrödinger operators, electronic properties of materials -- Appendix A: Sobolev spaces -- Appendix B: Problems.
Sommario/riassunto	This textbook presents the spectral theory of self-adjoint operators on Hilbert space and its applications in quantum mechanics. Based on a course taught by the author in Paris, the book not only covers the mathematical theory but also provides its physical interpretation, offering an accessible introduction to quantum mechanics for students with a background in mathematics. The presentation incorporates numerous physical examples to illustrate the abstract theory. The final two chapters present recent findings on Schrödinger's equation for systems of particles. While primarily designed for graduate courses, the

book can also serve as a valuable introduction to the subject for more advanced readers. It requires no prior knowledge of physics, assuming only a graduate-level understanding of mathematical analysis from the reader.

2. Record Nr.	UNISA996673175703316
Autore	Coppens Bart
Titolo	Availability, Reliability and Security : ARES 2025 International Workshops, Ghent, Belgium, August 11–14, 2025, Proceedings, Part IV // edited by Bart Coppens, Bruno Volckaert, Vincent Naessens, Bjorn De Sutter
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-032-00639-2
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (503 pages)
Collana	Lecture Notes in Computer Science, , 1611-3349 ; ; 15997
Altri autori (Persone)	VolckaertBruno NaessensVincent De SutterBjorn
Disciplina	005.8
Soggetti	Data protection Data and Information Security
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	First International Workshop on Cybersecurity and Privacy Risk Assessments (CPRA 2025): Securing the Road Ahead: Supporting Decision Making in Automotive Cybersecurity Risk Treatment -- A Data-Driven Approach for Cyber Security Assessments of SMEs -- A Viewpoint-based Model of Data Protection Impact Assessments -- Cybersecurity Vulnerability Prioritisation via Risk Assessment. Second International Workshop on Emerging Digital Identities (EDId 2025): Attestation of Electronic Identification Schemes based on Secure Channels through Security Microcontrollers -- A High-Level-of-Assurance EUDI Wallet with a Remote WSCD Supporting Biometrics and Passkeys -- Pseudonymity for Personal Data Stores: Pseudonymous WebIDs and Decentralized Identifiers -- Identity and Access Management for Dataspaces using the European Business Wallet and

eIDAS-based Credentials -- Guardians of the Registry: Certificate Transparency for Relying Party Authorization in eIDAS 2 -- Authentication Inconsistencies Across Online Services: A Multi-Scenario Security Analysis. Second International Workshop on Security and Privacy Enhancing Technologies for Multimodal Data (SPETViD 2025): A Review of Deep Packet Inspection for Network Security: From Traditional Techniques to Machine Learning Integration -- Building Realistic Ground Truth Datasets of Personal Identification Information for Entity Matching -- A Quantum-Safe Hybrid Cryptographic Framework for Multimedia Application. 6th International Workshop on Graph-based Approaches for CyberSecurity (GRASEC 2025): Privacy-Preserving Knowledge Graph Sharing in Peer-to-Peer Decentralized Federated Learning for Connected Autonomous Vehicles -- Leveraging Graph Neural Networks for Attack Detection in IoT Systems -- Hyperparameter Optimization in Neuro-Symbolic Unsupervised Graph Learning. 5th International Workshop on Behavioral Authentication for System Security (BASS 2025): Behavior-Based Anomaly Detection in Access and Usage Control for Smart Home Environments -- Unmasking Model Behavior: How LLMs reason on Vulnerability Detection -- Leveraging Knowledge Graphs and LLMs for Structured Generation of Misinformation.

Sommario/riassunto

This four-volume set LNCS 15994-15997 constitutes the proceedings of the ARES 2025 International Workshops on Availability, Reliability and Security, held under the umbrella of the 20th International conference on Availability, Reliability and Security, ARES 2025, which took place in Ghent, Belgium, during August 11-14, 2025. The 79 full papers presented in this book were carefully reviewed and selected from 173 submissions. They contain papers of the following workshops: Part I: First International Workshop on Artificial Intelligence, Cyber and Cyber-Physical Security (AI&CCPS 2025); 8th International Symposium for Industrial Control System and SCADA Cyber Security Research (ICS-CSR 2025); First Workshop on Sustainable Security and Awareness For nExt Generation InfRastructures (SAFER 2025); 4th Workshop on Cybersecurity in Industry 4.0 (SecIndustry 2025). Part II: 6th Workshop on Recent Advances in Cyber Situational Awareness and Data-Centric Approaches (CSA 2025); First International Workshop on Responsible Data Governance, Privacy, and Digital Transformation (RDGPT 2025); 22nd International Workshop on Trust, Privacy and Security in the Digital Society (TrustBus 2025). Part III: 18th International Workshop on Digital Forensics (WSDF 2025); 14th International Workshop on Cyber Crime (IWCC 2025); 9th International Workshop on Cyber Use of Information Hiding (CUING 2025). Part IV: First International Workshop on Cybersecurity and Privacy Risk Assessments (CPRA 2025); Second International Workshop on Emerging Digital Identities (EDId 2025); Second International Workshop on Security and Privacy Enhancing Technologies for Multimodal Data (SPETViD 2025); 6th International Workshop on Graph-based Approaches for CyberSecurity (GRASEC 2025); 5th International Workshop on Behavioral Authentication for System Security (BASS 2025).
