

1. Record Nr.	UNINA9910809488403321
Autore	Auyang Sunny Y.
Titolo	How is quantum field theory possible? // Sunny Y. Auyang
Pubbl/distr/stampa	New York, New York ; ; Oxford, [England] : , : Oxford University Press, , 1995 ©1995
ISBN	0-19-773231-3 1-280-44195-X 9786610441952 0-19-535761-2 1-60256-016-1
Descrizione fisica	1 online resource (289 p.)
Disciplina	530.1/43
Soggetti	Quantum field theory Physics - Philosophy Space and time
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	CONTENTS; 1. Introduction; 2. Nonrelativistic quantum mechanics; 3. Relativity and symmetries; 4. Quantum field theory; 5. Object of experiences: quantum state-observables-statistics; 6. The event structure and the spatio-temporal structure: local fields; 7. Explicit relations and the causal order: interacting fields; 8. Epilogue; APPENDIX A. Measure and probability: quantity, quality, modality; APPENDIX B. Fiber bundles and interaction dynamics; APPENDIX C. The cosmic and the microscopic: an application; NOTES; BIBLIOGRAPHY; INDEX
Sommario/riassunto	How can we know the microscopic world without a measurement theory? What are the general conditions of the world that make possible such knowledge? What are the presuppositions of physical theories? This book includes an analysis of quantum field theory, and quantum mechanics and interacting systems are addressed in a unified framework.