

1. Record Nr.	UNISA996466683603316
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Titolo	An Invitation to Quantum Field Theory [[electronic resource] /] / by Luis Alvarez-Gaumé, Miguel A. Vázquez-Mozo
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2012
ISBN	3-642-23728-2
Edizione	[1st ed. 2012.]
Descrizione fisica	1 online resource (XI, 294 p. 91 illus.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 839
Classificazione	530 UD 8220 UO 4000 PHY 023f
Disciplina	530.14/3
Soggetti	Elementary particles (Physics) Quantum field theory String theory Quantum physics Elementary Particles, Quantum Field Theory Quantum Field Theories, String Theory Quantum Physics Lehrbuch
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Why Do We Need Quantum Field Theory After All? -- From Classical to Quantum Fields -- Theories and Lagrangian I: Matter Fields -- Theories and Lagrangian II: Introducing Gauge Fields -- Theories and Lagrangian II: The Standard Model -- Towards Computational Rules: Feynman Diagrams -- Symmetries I: Continuous Symmetries -- Renormalization -- Anomalies -- The Origin of Mass -- Symmetries II: Discrete Symmetries -- Effective Field Theories and Naturalness -- Special Topics -- Notation, Conventions and Units -- A Crash Course in Group Theory -- Index.
Sommario/riassunto	This book provides an introduction to Quantum Field Theory (QFT) at an elementary level—with only special relativity, electromagnetism and

quantum mechanics as prerequisites. For this fresh approach to teaching QFT, based on numerous lectures and courses given by the authors, a representative sample of topics has been selected containing some of the more innovative, challenging or subtle concepts. They are presented with a minimum of technical details, the discussion of the main ideas being more important than the presentation of the typically very technical mathematical details necessary to obtain the final results. Special attention is given to the realization of symmetries in particle physics: global and local symmetries, explicit, spontaneously broken, and anomalous continuous symmetries, as well as discrete symmetries. Beyond providing an overview of the standard model of the strong, weak and electromagnetic interactions and the current understanding of the origin of mass, the text enumerates the general features of renormalization theory as well as providing a cursory description of effective field theories and the problem of naturalness in physics. Among the more advanced topics the reader will find are an outline of the first principles derivation of the CPT theorem and the spin-statistics connection. As indicated by the title, the main aim of this text is to motivate the reader to study QFT by providing a self-contained and approachable introduction to the most exciting and challenging aspects of this successful theoretical framework.

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2. Record Nr.	UNINA9910779101703321
Titolo	Spain : : Oversight and Supervision of Financial Market Infrastructures Technical Note
Pubbl/distr/stampa	Washington, D.C. : , : International Monetary Fund, , 2012
ISBN	1-4755-2675-X 1-4755-6808-8
Descrizione fisica	1 online resource (34 p.)
Collana	IMF Staff Country Reports
Soggetti	<ul style="list-style-type: none"> <li>Finance - Spain</li> <li>Banks and Banking</li> <li>Finance: General</li> <li>Investments: General</li> <li>Public Finance</li> <li>Monetary Systems</li> <li>Standards</li> <li>Regimes</li> <li>Government and the Monetary System</li> <li>Payment Systems</li> <li>Public Administration</li> <li>Public Sector Accounting and Audits</li> <li>Pension Funds</li> <li>Non-bank Financial Institutions</li> <li>Financial Instruments</li> <li>Institutional Investors</li> <li>Banks</li> <li>Depository Institutions</li> <li>Micro Finance Institutions</li> <li>Mortgages</li> <li>General Financial Markets: General (includes Measurement and Data)</li> <li>Finance</li> <li>Public finance &amp; taxation</li> <li>Banking</li> <li>Investment &amp; securities</li> <li>Payment systems</li> <li>PFM information systems</li> <li>Central counterparty clearing house</li> <li>Securities</li> </ul>

Financial markets  
Public financial management (PFM)  
Financial institutions  
Clearing and settlement systems  
Clearinghouses  
Finance, Public  
Banks and banking  
Financial instruments  
Spain Economic policy  
Spain

<b>Lingua di pubblicazione</b>	Inglese
<b>Formato</b>	Materiale a stampa
<b>Livello bibliografico</b>	Monografia
<b>Note generali</b>	Description based upon print version of record.
<b>Nota di contenuto</b>	Cover; Contents; Glossary; Executive Summary; Table; 1. Main Recommendations on FMI Supervision and Oversight; I. Introduction; II. Description of the FMI Supervision/Oversight Framework; A. Overview of Financial Market Infrastructures; B. Overview of the Supervisory and Oversight Framework; C. Main Reforms Since the 2006 FSAP; Boxes; 1. 2006 FSAP Recommendations for IBERCLEAR; III. Main Issues at Stake; A. Effectiveness of the Oversight/Supervision of the Systemically Important FMIs; 2. Follow-up of the 2006 FSAP Main Recommendations for IBERCLEAR; B. Cooperation Between Domestic Authorities C. Financial Risk Management and Corporate Governance of the Spanish CCPsD. Crisis Management; Appendixes; 1. Overview of the Trading, Clearing and Settlement Organization in Spain; 2. European Initiatives in the Field of Securities and Derivatives; Figures; 1. MEFF Collateral Details at End-November 2011; 3. Risk Management Framework in MEFF and MEFFClear; 2. Meffclear Collateral Details at End-November 2011
<b>Sommario/riassunto</b>	This technical note focuses on financial market infrastructures (FMIs) in Spain. The way Spanish authorities supervise and oversee FMIs is an essential issue in promoting and maintaining domestic financial stability. Although systemically important payments systems are European or international based, there are currently four domestic securities settlement systems and three domestic central counterparties in Spain. Overall, authorities' responsibilities with respect to FMIs are clearly defined in the law, but further transparency on Banco de España's (BdE) responsibilities with respect to FMIs other than payments systems is recommended.