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Altri autori (Persone)	ZaitsevV. V NakariakovV. M
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Coronal Seismology; Contents; Preface; 1 Introduction; 1.1 Magnetic Loops and Open Flux Tubes as Basic Structural Elements in Solar and Stellar Coronae; 1.2 Data of Observations and Types of Coronal Loops; 1.3 The MHD Approach for Coronal Plasma; References; 2 Coronal Magnetic Loop as an Equivalent Electric Circuit; 2.1 A Physical Model of an Isolated Loop; 2.2 The Formation of Magnetic Tubes by Photospheric Convection; 2.3 The Structure of the Coronal Part of a Flux Tube; 2.4 Diagnostics of Electric Currents; 2.4.1 "Warm" Loops; 2.4.2 "Hot X-ray" Loops; 2.4.2.1 Flare Magnetic Loops 2.5 The Equivalent Electric Circuit 2.6 Inductive Interaction of Magnetic Loops; 2.7 Waves of Electric Current in Arcades of Coronal Magnetic Loops; 2.8 Magnetic Loops above Spots; References; 3 Resonators for MHD Oscillations in Stellar Coronae; 3.1 Eigenmodes of Coronal Loops: The Plasma Cylinder Approach and the Dispersion Equation; 3.1.1 Trapped Modes; 3.1.1.1 Global Sausage Mode; 3.1.1.2 Global Kink Mode; 3.1.2 Leaky Modes; 3.1.2.1 Sausage Mode; 3.1.2.2 Kink Modes;

3.1.3 Ballooning Modes; 3.2 MHD Resonator at  $\sim 1R_{\odot}$  in the Solar Corona; 3.3 Excitation Mechanisms for Loop Oscillations  
3.3.1 External Triggers 3.3.2 Parametric Excitation of Loop Oscillations by p-Modes; 3.3.3 Internal Excitation; 3.3.3.1 The Excitation of the Sausage Mode by Instantaneous Energy Release; 3.3.3.2 The Excitation of the Global Kink Mode by Chromosphere Evaporation; 3.3.3.3 The Excitation of the Sausage Mode by High-Energy Protons under the Bounce-Resonance Condition; References; Further Reading; 4 Propagating MHD Waves in Coronal Plasma Waveguides; 4.1 MHD Waves in Vertical Coronal Magnetic Flux Tubes; 4.1.1 Effects of Stratification; 4.2 Propagating Waves in Coronal Loops  
4.2.1 Propagating Compressible Waves in Coronal Loops 4.2.2 Transverse Waves in Coronal Loops; 4.3 Waves in Coronal Jets; 4.4 Evolution of Short-Wavelength, Fast Magnetoacoustic Waves; 4.5 Alfvén Wave Phase Mixing; 4.5.1 Damping of Alfvén Waves because of Phase Mixing; 4.5.2 Enhanced Nonlinear Generation of Oblique Fast Waves by Phase-Mixed Alfvén Waves; References; 5 Prominence Seismology; 5.1 Prominence Models; 5.2 Prominence Oscillations; 5.3 The Heating Effect; 5.4 Nonlinear Oscillations: Dynamical Modes; 5.5 Flare Processes in Prominences; 5.6 Stellar and Interstellar Prominences  
References 6 The Coronal Loop as a Magnetic Mirror Trap; 6.1 Particle Distribution in a Coronal Loop; 6.1.1 Gyrosynchrotron Emission from a Flaring Loop; 6.2 Kinetic Instabilities in a Loop; 6.2.1 A Loop as an Electron Cyclotron Maser; 6.2.2 The Plasma Mechanism of the Radio Emission from Coronal Loops; 6.2.3 Instabilities of Whistlers and Small-Scale Alfvén Waves; 6.3 The Fine Structure of Radio Emission from Coronal Loops; 6.3.1 Sudden Reductions; 6.3.2 Zebra Pattern; 6.3.3 Diagnostics of Coronal Plasma Using the Fine Structure of Radio Emission; References  
7 Flaring Events in Stellar Coronal Loops

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Sommario/riassunto

This concise and systematic account of the current state of this new branch of astrophysics presents the theoretical foundations of plasma astrophysics, magneto-hydrodynamics and coronal magnetic structures, taking into account the full range of available observation techniques -- from radio to gamma. The book discusses stellar loops during flare energy releases, MHD waves and oscillations, plasma instabilities and heating and charged particle acceleration. Current trends and developments in MHD seismology of solar and stellar coronal plasma systems are also covered, while recent p

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2. Record Nr.	UNINA9910783105203321
Autore	Fischer Stanley
Titolo	IMF essays from a time of crisis : the international financial system, stabilization, and development // Stanley Fischer
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Descrizione fisica	1 online resource (xiv, 535 pages) : illustrations
Disciplina	332/.042
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen.
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	Stanley Fischer served as First Deputy Managing Director of the International Monetary Fund from 1994 to 2001. IMF Essays from a Time of Crisis collects sixteen essays written for the most part during his time at the IMF, each updated with Fischer's later reflections on the issues raised. The IMF drew much criticism for some of its actions during Fischer's tenure, and he vigorously defends the "battlefield medicine" practiced by the IMF during a series of economic crises, which included the problems of economic transition in the former Soviet bloc and the Asian financial crisis. Fischer addresses the subsequent calls for reform of the international financial system and makes the case for the IMF as an international lender of last resort. The first section of essays, "The Role of the IMF and the Reform of the International Financial System," considers the IMF's role in the international financial system in light of the crises of the 1990s. The second section, "Macroeconomic Policy, Stabilization, and Transition," examines such topics as exchange rate regimes, inflation, and Eastern Europe's relation to the European Union. The final section, "Poverty and Development," reflects Fischer's basic belief that economic policies

should explicitly target poverty reduction. These engaging and accessible essays will appeal not only to economics students, economists, and policymakers but also to the general reader interested in the international monetary system.

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