1.	Record Nr.	UNINA9910257437203321
	Titolo	Stellar Turbulence [[electronic resource]]: Proceedings of Colloquium 51 of the International Astronomical Union, Held at the University of Western Ontario, London, Ontario, Canada, August 27-30, 1979 / / edited by D.F. Gray, J.L. Linsky
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1980
	ISBN	3-540-38554-1
	Edizione	[1st ed. 1980.]
	Collana	Lecture Notes in Physics, , 0075-8450 ; ; 114
	Disciplina	520
	Soggetti	Observations, Astronomical
		Astronomy—Observations Astrophysics
		Astronomy, Observations and Techniques
		Astrophysics and Astroparticles
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di contenuto	Stellar convection theory Instabilities in a polytropic atmosphere On the dynamics of the solar convection zone Thermal and continuum driven convection in B-stars The height dependence of granular motion Numerical simulation of the solar granulation Differential rotation in stars with convection zones Generation of oscillatory motions in the stellar atmosphere The evolution of an average solar granule Observed solar spectral line asymmetries and wavelength shifts due to convection Differential line shifts in late type stars Temporal and spatial fluctuations in widths of solar EUV lines Formation of the profiles of absorption lines in the inhomogeneous medium The determination of stellar turbulence by low resolution techniques Analysis of high resolution stellar line profiles Examples of non-thermal motions as seen on the sun Diagnostic use of FE II H & K wing emission lines Turbulence in main sequence stars Observational aspects of macroturbulence in early type stars Photospheric Macroturbulence in late-type stars Depth-dependence of turbulence in stellar atmospheres Turbulence

in the atmospheres of eclipsing binary stars -- Differential line-shifts -- Time dependence of Balmer progression in the spectrum of HD 92207 -- Microturbulence : Age dependences -- High luminosity F-K stars motions and H? emissions -- Turbulence in the atmosphere of Btype starsmissions -- Mesoturbulence -- Stochastic approach -- The application of mesoturbulence to stellar atmospheres -- Effects of acoustic waves on spectral line profiles -- Some effects of strong acoustic waves on strong spectral lines -- Numerical simulation of granular convection: Effects on photospheric spectral line profiles --Mechanical energy transport -- Stellar chromospheres -- Observations of the outer atmospheric regions of ? Orionis -- Stellar-winds and coronas in cool stars -- Relationship between envelope structure and energy source of non-thermal motions -- An analysis of microturbulence in the atmosphere of the F-type supergiant gamma cygni -- The solar chromospheric microturbulence and the emission observed at eclipse -- Excitation dependent gf-values and depth dependent microturbulences -- On the structural and stochastic motions in the solar and stellar atmospheres -- I U E observations of circumstellar lines and mass loss from B-star -- On the establishment of internally consistent abundance-oscillator strength scales --Differential rotation and magnetic activity of the lower main sequence stars -- Changes of photospheric line asymmetries with effective temperature -- Small-scale versus large scale motions in the solar atmosphere derived from a non-LTE calculation of multiplet 38 of Ti I -- Effects of flux tubes on conventional chromospheric diagnostics --Summary.