1. Record Nr. UNISA996466511903316

Titolo	Dynamical systems and turbulence, Warwick 1980 : proceedings of a symposium held at the University of Warwick 1979/80 / / edited by D. A. Rand and L. S. Young
Pubbl/distr/stampa	Berlin ; ; Heidelberg ; ; New York : , : Springer-Verlag, , [1981] ©1981
ISBN	3-540-38945-8
Edizione	[1st ed. 1981.]
Descrizione fisica	1 online resource (VIII, 392 p.)
Collana	Lecture notes in mathematics ; ; 898
Disciplina	532.0527
Soggetti	Turbulence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Lectures on bifurcation from periodic orbits -- General introduction to steady state bifurcation -- Anosov diffeomorphisms with pinched spectrum -- Formal normal form theorems for vector fields and some consequences for bifurcations in the volume preserving case -- Quasi periodic flow near a codimension one singularity of a divergence free vector field in dimension three -- A C2 Kupka-Smale diffeomorphism of the disk with no sources or sinks -- On a codimension two bifurcation -- Stability and bifurcation in a parabolic equation -- Wandering intervals -- Space- and time-periodic perturbations of the Sine-Gordon equation -- Simple computation of bifurcating invariant circles for mappings -- Families of vector fields with finite modulus of stability -- On the dimension of the compact invariant sets of certain non-linear maps -- More topological entropy for geodesic flows -- Controllability of multi-trajectories on Lie groups -- Characterising diffeomorphisms with modulus of stability one -- Algebraic Kupka-Smale theory -- Differentiability of the stable foliation for the model Lorenz equations -- On the bifurcations creating horseshoes -- Saddle connections of arcs of diffeomorphisms: Moduli of stability -- Detecting strange attractors in turbulence -- Local and simultaneous structural stability of certain diffeomorphisms.

2. Record Nr. UNINA9910438110603321

Titolo	Towards understanding the climate of Venus : applications of terrestrial models to our sister planet / / Lennart Bengtsson ... [et al.], editors
Pubbl/distr/stampa	New York, : Springer, 2013
ISBN	1-283-93384-5 1-4614-5064-0
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (187 p.)
Collana	ISSI Scientific Report Series ; ; 11
Altri autori (Persone)	BengtssonLennart
Disciplina	551.50999 551.50999/22 551.5099922
Soggetti	Climatology Atmospheric physics Extrasolar planets Venus (Planet) Atmosphere
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	pt. 1. What do we know about Venus? -- pt. 2. Modeling the atmospheric circulation of Venus -- pt. 3. Outlook.
Sommario/riassunto	ESA’s Venus Express Mission has monitored Venus since April 2006, and scientists worldwide have used mathematical models to investigate its atmosphere and model its circulation. This book summarizes recent work to explore and understand the climate of the planet through a research program under the auspices of the International Space Science Institute (ISSI) in Bern, Switzerland. Some of the unique elements that are discussed are the anomalies with Venus’ surface temperature (the huge greenhouse effect causes the surface to rise to 460°C, without which would plummet as low as -40°C), its unusual lack of solar radiation (despite being closer to the Sun, Venus receives less solar radiation than Earth due to its dense cloud cover reflecting 76% back) and the juxtaposition of its atmosphere and planetary rotation (wind speeds can climb up to 200 m/s, much faster than Venus’ sidereal day of 243 Earth-days).