1. Record Nr.   UNISA996466643103316

Titolo	Iterates of piecewise monotone mappings on an interval / / edited by Chris Preston
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer-Verlag, , [1988] ©1988
ISBN	3-540-45971-5
Edizione	[1st ed. 1988.]
Descrizione fisica	1 online resource (VIII, 172 p.)
Collana	Lecture Notes in Mathematics ; ; Volume 1347
Disciplina	518.26
Soggetti	Iterative methods (Mathematics)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Piecewise monotone mappings -- Proof of Theorems 2.4 and 2.5 -- Sinks and homtervals -- Examples of register-shifts -- A proof of Parry's theoren (Theorem 2.6) -- Reductions -- The structure of the set D(f) -- Countable closed invariant sets -- Extensions -- Refinements -- Mappings with one turning point -- Some miscellaneous results from real analysis.
Sommario/riassunto	Piecewise monotone mappings on an interval provide simple examples of discrete dynamical systems whose behaviour can be very complicated. These notes are concerned with the properties of the iterates of such mappings. The material presented can be understood by anyone who has had a basic course in (one-dimensional) real analysis. The account concentrates on the topological (as opposed to the measure theoretical) aspects of the theory of piecewise monotone mappings. As well as offering an elementary introduction to this theory, these notes also contain a more advanced treatment of the problem of classifying such mappings up to topological conjugacy.