

<<不动点定理和应用>>

图书基本信息

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前言

Fixed point theorems are the basic mathematical tools used in showing the existence of solution concepts in game theory and economics. While there are many excellent texts available on fixed point theory, most of them are inaccessible to a typical well-trained economist. These notes are intended to be a nonintimidating introduction to the subject of fixed point theory with particular emphasis on economic applications. While I have tried to integrate the mathematics and applications, these notes are not a comprehensive introduction to either general equilibrium theory or game theory. There are already a number of excellent texts in these areas. Debreu [1959] and Luce and Raiffa [1957] are classics. More recent texts include Hildenbrand and Kirman [1976], Ichimshi [1983], Moulin [1982] and Owen [1982]. Instead I have tried to cover material that gets left out of these texts, and to present it in such a way as to make it quickly and easily accessible to people who want to apply fixed point theorems, not refine them. I have made an effort to present useful theorems fairly early on in the text. This leads to a certain amount of compromise. In order to keep prerequisites to a minimum, the theorems are not generally stated in their most general form and the proofs presented are not necessarily the most elegant. I have tried to keep the level of mathematical sophistication on a par with, say, Rudin [1976]. In particular, only finite-dimensional spaces are used. While many of the theorems presented here are true in arbitrary locally convex spaces, no attempt has been made to cover the infinite-dimensional results. I have however deliberately tried to present proofs that generalize easily to infinite dimensional spaces whenever possible.

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内容概要

不动点理论是假设给定的集合中有一个解并且可以用它来决定市场是不是处于平衡态中。书中重在强调实践中的应用，让读者了解应用不动点理论到经济和合作与非合作博弈中平衡点的存在性的数学技巧。将数学理论和其在经济中的应用既巧妙结合又有机区分，对于数学家和经济学家这都是一本很有价值的基础手头参考书。

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