## Contents

1  Introduction .................................................................................................................. 3
   About this User Guide .................................................................................................. 3
   System Requirements .................................................................................................. 3
      Operating Systems .................................................................................................. 3
      Other Software ....................................................................................................... 3
      Monitor .................................................................................................................. 3
      Browsers ................................................................................................................ 3

2  Using Artech House Ebooks .................................................................................... 4
   How to Access Artech House Ebooks ......................................................................... 4
   Searching – Finding the Book You Need ................................................................... 4
      Search Results ....................................................................................................... 5
   Book Description Page ............................................................................................. 6
   Reading Artech House Ebooks .................................................................................. 7
      Annotation Tools ................................................................................................... 8
   Download the Whole Book ....................................................................................... 9
   Search ....................................................................................................................... 10
   Full Screen View ....................................................................................................... 10
1 Introduction

About this User Guide
This user guide includes everything you need to know to use and enjoy the ebooks provided through your library from Artech House.

System Requirements
To get the best from Artech House Ebooks, your computer must comply with the following minimum requirements:

Operating Systems

Windows
Windows XP with Service Pack 2 (SP2)
or Windows 2000 Service Pack 4 (SP4)
or Windows Vista or later.
Both 32 and 64 bit versions are supported.
500MHz or faster Intel Pentium processor
128MB of RAM

Macintosh PowerPC
Mac OS X version 10.3.9 (or higher) or 10.4.8 (or higher)
500MHz or faster PowerPC G4 or G5 processor
128 MB of RAM

Macintosh Intel
Mac OS X version 10.4.8 (or higher)
500MHz or faster processor
128 MB of RAM

Linux
2.4.37 or later
500MHz or faster processor
128 MB of RAM

Note: If using Linux, you will not be able to download ebooks. This is because Adobe Digital Editions, the program we use to enable downloads, does not support Linux OS. You will, however, still be able to read ebooks online using your web browser.

Other Software
Adobe Flash Player 9.0 or later
Adobe Digital Editions 1.7.1 or later

Monitor
Monitor with at least 800 x 600 screen resolution.

Browsers
Microsoft IE 6 (Windows)
Microsoft IE 7 (Windows)
Safari 3 (Mac Windows)
Firefox 2+ (Windows Mac Linux)
Netscape 7.1+ (Windows Mac Linux)
Google Chrome (Windows)
2 Using Artech House Ebooks

How to Access Artech House Ebooks
You can use Artech House Ebooks by going to the Artech House Ebooks link on your library’s website, or by finding a book in your library’s online catalogue.

If you’re on campus, you will not need to enter a username and password in order to access Artech House Ebooks. Additionally, if you’re off-campus and you log in to the library’s website, you probably won’t need a username and password either. If, however, you wish to access Artech House Ebooks directly, without first logging in to your library account, then most likely you will need to provide a username and password. Contact the library for access credentials to Artech House Ebooks.

Searching – Finding the Book You Need
Once you’ve accessed Artech House Ebooks through the library website, searching for relevant ebooks is easy: There’s a search bar at the top of every page, and advanced search options on the front page.
Search Results
Search results can be filtered and sorted to help you find the most relevant text.

choose to search within one collection or all Artech House collections.

Sort your search results by title, author, subject and other criteria.

Search terms are highlighted in the results pane.

Filter by title, author or subject to narrow the search results.
The book description page, or summary page, provides essential information about the book you’ve found.

1. For more detailed information, click on the “Table of Contents and Extended Information” tab.

2. To start reading this book, just click the “Start Reading” button. This will open up eb20 Reader in a new browser window.
Reading Artech House Ebooks

Artech House Ebooks utilises a feature-rich browser-based online ebook reader, called eb20 Reader. Eb20 enables you to read the full text of any Artech House ebook within your web browser, without the need to download and install separate software programs.

If you’d prefer to download the whole book, you can do that by clicking the “Download” link at the top of eb20 Reader.

The following pages provide an explanation of the features and functions of eb20 Online Reader. You can find fast help by clicking the Help link within the Reader.

In an economy without externality and public goods, the competitive equilibrium is Pareto-optimal, provided that the numbers of goods and agents are finite. It is therefore impossible to improve the welfare of one agent without diminishing the welfare of another agent. This result is the First Welfare Theorem (Arrow (1951), Debreu (1954)).

This property is not necessarily verified when there is an infinite number of agents and goods. We shall see that in the standard model of chapter 1, the inter-temporal competitive equilibrium may or may not be Pareto-optimal. In a dynamic economy with an infinity of periods, we may distinguish two aspects of optimality. The dynamic efficiency deals with the issue of the productive efficiency when the production frontier is extended to an infinite horizon setup. The welfare of the agents depends on their life-cycle utility, and hence on the allocation of total consumption between two generations living at the same time, but also among all generations.

A natural way to study allocations is thus to proceed in three steps: feasibility, (productive) efficiency, optimality.

Another important question will be addressed. How will a central benevolent planner – that can take all the consumption and savings decisions – allocate the resources of the economy between capital accumulation, consumption of the young, and consumption of the old for each generation? After the resolution of this problem, we shall be able, in chapter 3, to characterize feasible allocations.
Annotation Tools

1. **Print.** You can print pages from this book. The proportion of the book that you can print at any time (the number of pages) is set by Artech House. Printing happens one page at a time.

2. **Email.** If you like what you see, you can email a page of this book to a friend or colleague. The plain text from the page is sent so, if the page includes images or other graphic elements, those elements will not be sent.

3. **Highlighting.** Click here and select the lines of text you want to highlight.

4. **Copy and Paste.** You can copy pages from this book to use in your reports and other documents. The amount of any book that you can copy is limited by the rules set by Artech House.

5. **Notes.** This is like the margin notes that you might pencil into the pages of a paper book. You can make a note of significant passages, reminders, anything really.

6. **Bookmark** any page with a brief phrase and a memory aide.

Registration is required in order to use the annotation features of eb20 Online Reader.

In order that your annotations (bookmarks, highlights, etc) persist from one reading session to the next, you’ll need to register a username, email address and password with our online collaboration system called Amigo Reader.

The first time you highlight some text, print a page, or use any of the features above, you’ll be prompted to register with Amigo Reader. This will enable us to retain your annotations within your book, so you can see them in the book when you resume reading it.

You only need to register once. Thereafter, if you want to add more annotations or see your annotations from a previous session, you only need to log in and they’ll be right there for you, inside the book.
Download the Whole Book

Download the entire book, using Adobe Digital Editions.

When you click the download link, you will be prompted (once only) to download and install Adobe Digital Editions.

It is necessary to have this program installed on your computer in order to successfully download an ebook from Artech House Ebooks.

It’s a simple process; just follow the prompts.

Download.
Search
Eb20 Online Reader incorporates powerful inside-the-book search tools. Type your search term or terms in the search field at the top-right of the window. Results are displayed in the right-hand panel. Click on any of the listed results and the relevant page will be displayed, with the search term highlighted in red.

Full Screen View
If you’d like to read “immersively” – get lost in the text without the clutter of toolbars and other on-screen elements, just click the Full Screen Mode button in the top toolbar. The result is a simple reading page that you can scroll through at ease.

To return to the standard view, complete with toolbars, just click the link at the top of the page, or hit the [Esc] key on your keyboard.