Instructions for the E-book

1 Viewing the E-book

The *E-book* is in the file *E-book.pdf* which is in the folder *MathematicalMeth-
ods*. This file is in portable document format (PDF) which can be viewed
with Adobe's *Acrobat Reader*. We recommend using *Acrobat Reader* be-
cause other software for displaying PDF documents may not handle the
hypertext links correctly. These instructions assume that you are using
Acrobat Reader.

Important: At the present time, *Microsoft Windows* provides the
most reliable environment for viewing the *E-book* and utilizing the hyperlink
features. Although the *E-book* can be viewed in most other environments,
the hyperlinks to external files may not work correctly.

2 Use of the E-book

The *E-book* provides:

- *Page Access* with:

    - *Bookmarks for the Contents, the Preface, Chapters, Sections,
      the Bibliography, and the Index.* Bookmarks appear on the left
      side of the *Acrobat Reader* window. The *Table of Contents* on
      pages vii-viii also has hyperlinks to these locations.

    - *Direct Page Access.* Individual pages can be accessed with the
      menu items

      Document > Go To Page..

Page access is also obtained with the page counter on the tool bar at the bottom of the window.

– *Navigation with Tool Bar Arrows. Acrobat Reader* provides six arrow icons on the tool bar that control the flow between pages. These arrows provide links to:

* The *first* page.
* The *last* page.
* The *next* page.
* The *previous* page.
* The *previous* view and the *next* view. These icons are useful when hyperlinks are used to move within the E-book and to supplemental files and web sites.

- *Hypertext links* for chapter numbers, section numbers, displayed (and numbered) formulas, definitions, theorems, examples, figures, footnotes, exercises, the table of contents, the index, the bibliography, mathematical operators, selected terms, external files, and web sites. Hypertext links are indicated by colored text:

  – Red links refer to locations within the text.

  – Green links refer to citations in the bibliography.

  – Blue links refer to web sites, files with supplemental information, and files with computer algebra system dialogues and procedures.

  Important: Addresses for web sites that appear on pages 1, 2, and 14 are the ones at the time of publication. It is inevitable that some of them will change.

- *Text Search.* This operation is obtained in *Acrobat Reader* with menu items

$$Edit > Find$$

- *Access to Dialogues and Programs.* In the book, dialogues and programs that are on the CD are indicated by the word *Implementation.* For example, the caption to Figure 2.1 on page 19 contains

  Implementation: Maple (mws), Mathematica (nb), MuPAD (mnb)

  which indicates that the dialogue refereed to in Figure 2.1 is available in notebook format for each of these systems. These dialogues can be accessed from the *E-book* by clicking on the system name (Maple,

Mathematica, or MuPAD) which brings up the computer algebra system with the dialogue.

Important: In some environments, this operation brings up the computer algebra system, but, unfortunately, without the dialogue. If this occurs, open the dialogue from the computer algebra system interface.

In a similar way, the caption to Figure 2.2 on page 23 contains

Implementation: Maple (txt), Mathematica (txt), MuPAD (txt)

which indicates that an implementation of the mathematical pseudo-language (MPL) procedure in Figure 2.2 is available in a text (txt) format for each of these systems. These text files can be accessed from the *E-book* by clicking on the system name which brings up a text editor to display the file.

For additional information on using the dialogues and programs, see the files

– *InstructionsMaple.pdf*,
– *InstructionsMathematica.pdf*,
– *InstructionsMuPAD.pdf*

in the folder *MathematicalMethods*.

3   Page Magnification and Layout

The *E-book* appears initially with the magnification *Fit Width* which fits the page width to the size of the viewing window. To change the magnification, use the *zoom* icons on the tool bar.

The *E-book* appears initially in *Single Page* mode. To change to *Continuous* mode or *Continuous-Facing* mode, click on the menu item

View

and check the desired mode.

4   Page Orientation with Thumbnails

Readers often become disoriented when navigating through an electronic book. To minimize this condition, *Acrobat Reader* provides *thumbnails* for each page in the book which are displayed by clicking on the

Thumbnails

tab on the left side of the *Acrobat Reader* window. Thumbnails provide access to pages in the text and indicate the current location on a page.