



The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series)

By Richard Jones, Antony Hosking, Eliot Moss

[Download now](#)

[Read Online](#) 

The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) By Richard Jones, Antony Hosking, Eliot Moss

Published in 1996, Richard Jones's *Garbage Collection* was a milestone in the area of automatic memory management. The field has grown considerably since then, sparking a need for an updated look at the latest state-of-the-art developments. **The Garbage Collection Handbook: The Art of Automatic Memory Management** brings together a wealth of knowledge gathered by automatic memory management researchers and developers over the past fifty years. The authors compare the most important approaches and state-of-the-art techniques in a single, accessible framework.

The book addresses new challenges to garbage collection made by recent advances in hardware and software. It explores the consequences of these changes for designers and implementers of high performance garbage collectors. Along with simple and traditional algorithms, the book covers parallel, incremental, concurrent, and real-time garbage collection. Algorithms and concepts are often described with pseudocode and illustrations.

The nearly universal adoption of garbage collection by modern programming languages makes a thorough understanding of this topic essential for any programmer. This authoritative handbook gives expert insight on how different collectors work as well as the various issues currently facing garbage collectors. Armed with this knowledge, programmers can confidently select and configure the many choices of garbage collectors.

Web Resource

The book's online bibliographic database at www.gchandbook.org includes over 2,500 garbage collection-related publications. Continually updated, it contains abstracts for some entries and URLs or DOIs for most of the electronically

available ones. The database can be searched online or downloaded as BibTeX, PostScript, or PDF.

E-book

This edition enhances the print version with copious clickable links to algorithms, figures, original papers and definitions of technical terms. In addition, each index entry links back to where it was mentioned in the text, and each entry in the bibliography includes links back to where it was cited.

 [Download The Garbage Collection Handbook: The Art of Automa ...pdf](#)

 [Read Online The Garbage Collection Handbook: The Art of Auto ...pdf](#)

The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series)

By Richard Jones, Antony Hosking, Eliot Moss

The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) By Richard Jones, Antony Hosking, Eliot Moss

Published in 1996, Richard Jones's *Garbage Collection* was a milestone in the area of automatic memory management. The field has grown considerably since then, sparking a need for an updated look at the latest state-of-the-art developments. **The Garbage Collection Handbook: The Art of Automatic Memory Management** brings together a wealth of knowledge gathered by automatic memory management researchers and developers over the past fifty years. The authors compare the most important approaches and state-of-the-art techniques in a single, accessible framework.

The book addresses new challenges to garbage collection made by recent advances in hardware and software. It explores the consequences of these changes for designers and implementers of high performance garbage collectors. Along with simple and traditional algorithms, the book covers parallel, incremental, concurrent, and real-time garbage collection. Algorithms and concepts are often described with pseudocode and illustrations.

The nearly universal adoption of garbage collection by modern programming languages makes a thorough understanding of this topic essential for any programmer. This authoritative handbook gives expert insight on how different collectors work as well as the various issues currently facing garbage collectors. Armed with this knowledge, programmers can confidently select and configure the many choices of garbage collectors.

Web Resource

The book's online bibliographic database at www.gchandbook.org includes over 2,500 garbage collection-related publications. Continually updated, it contains abstracts for some entries and URLs or DOIs for most of the electronically available ones. The database can be searched online or downloaded as BibTeX, PostScript, or PDF.

E-book

This edition enhances the print version with copious clickable links to algorithms, figures, original papers and definitions of technical terms. In addition, each index entry links back to where it was mentioned in the text, and each entry in the bibliography includes links back to where it was cited.

The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) By Richard Jones, Antony Hosking, Eliot

Moss Bibliography

- Sales Rank: #256541 in Books
- Brand: Chapman and Hall/CRC
- Published on: 2011-08-17
- Original language: English
- Number of items: 1
- Dimensions: 10.50" h x 7.75" w x 1.00" l, 2.15 pounds
- Binding: Hardcover
- 511 pages



[Download](#) The Garbage Collection Handbook: The Art of Automata ...pdf



[Read Online](#) The Garbage Collection Handbook: The Art of Auto ...pdf

Download and Read Free Online The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) By Richard Jones, Antony Hosking, Eliot Moss

Editorial Review

Review

The Garbage Collection Handbook is the most up-to-date, detailed, and exhaustive collation and description of the current state of the art of Garbage Collection and Automatic Memory Management available today. It is an imperative reference book for anyone working in the field, and I would consider it the textbook of reference covering GC 101 thru GC 530 course levels, if such courses were given at universities worldwide. As CTO of Azul Systems and co-creator of multiple modern concurrent collectors, Richard Jones' previous *Garbage Collection* book was indispensable to my work over the years. **The Garbage Collection Handbook** has immediately taken its place. Each of our GC engineers has a copy on their desk.

?Gil Tene, Chief Technical Officer and co-founder of Azul Systems

In a field replete with ephemera, this book, just like its predecessor, stands as a monumental work that will last for decades.

?Dr. Mario Wolczko, Research Director, Oracle Labs

From the Back Cover

Published in 1996, Richard Jones's *Garbage Collection* was a milestone in the area of automatic memory management. The field has grown considerably since then, sparking a need for an updated look at the latest state-of-the-art developments. **The Garbage Collection Handbook: The Art of Automatic Memory Management** brings together a wealth of knowledge gathered by automatic memory management researchers and developers over the past fifty years. The authors compare the most important approaches and state-of-the-art techniques in a single, accessible framework.

The book addresses new challenges to garbage collection made by recent advances in hardware and software. It explores the consequences of these changes for designers and implementers of high performance garbage collectors. Along with simple and traditional algorithms, the book covers parallel, incremental, concurrent, and real-time garbage collection. Algorithms and concepts are often described with pseudocode and illustrations.

Features

- Provides a complete, up-to-date, and authoritative sequel to the 1996 book
- Offers thorough coverage of parallel, concurrent, and real-time garbage collection algorithms
- Explains some of the tricky aspects of garbage collection, including the interface to the run-time system
- Backed by a comprehensive online database of over 2,500 garbage collection-related publications

The nearly universal adoption of garbage collection by modern programming languages makes a thorough understanding of this topic essential for any programmer. This authoritative handbook gives expert insight on how different collectors work as well as the various issues currently facing garbage collectors. Armed with this knowledge, programmers can confidently select and configure the many choices of garbage collectors.

About the Author

Richard Jones is Professor of Computer Systems at the School of Computing, University of Kent, Canterbury. He received a BA in Mathematics from Oxford University in 1976. He spent a few years teaching before returning to higher education at the University of Kent, where he has remained ever since, receiving an MSc in Computer Science in 1989.

Antony Hosking is an Associate Professor in the Department of Computer Science at Purdue University, West Lafayette. He received a BSc in Mathematical Sciences from the University of Adelaide, Australia, in 1985, and an MSc in Computer Science from the University of Waikato, New Zealand, in 1987. He continued his graduate studies at the University of Massachusetts Amherst, receiving a PhD in Computer Science in 1995.

Eliot Moss is a Professor in the Department of Computer Science at the University of Massachusetts Amherst. He received a BSEE in 1975, MSEE in 1978, and PhD in Computer Science in 1981, all from the Massachusetts Institute of Technology, Cambridge. After four years of military service, he joined the Computer Science faculty at the University of Massachusetts Amherst.

Users Review

From reader reviews:

Ellen Jones:

In this 21st hundred years, people become competitive in every way. By being competitive right now, people have to do something to make these survive, being in the middle of typically the crowded place and notice simply by surrounding. One thing that oftentimes many people have underestimated the idea for a while is reading. Sure, by reading a publication your ability to survive improve then having chance to stand than other is high. For you personally who want to start reading a new book, we give you this specific The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) book as basic and daily reading e-book. Why, because this book is greater than just a book.

Karen Moore:

The publication untitled The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) is the e-book that recommended to you to read. You can see the quality of the book content that will be shown to you actually. The language that creator used to explain their ideas are easily to understand. The copy writer was did a lot of exploration when write the book, so the information that they share for your requirements is absolutely accurate. You also will get the e-book of The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) from the publisher to make you a lot more enjoy free time.

Louise Denison:

In this era which is the greater particular person or who has ability in doing something more are more valuable than other. Do you want to become one of it? It is just simple strategy to have that. What you are related is just spending your time not much but quite enough to get a look at some books. One of the books in the top listing in your reading list is The Garbage Collection Handbook: The Art of Automatic Memory

Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series). This book that is qualified as The Hungry Mountains can get you closer in growing to be precious person. By looking upwards and review this book you can get many advantages.

Mary Adamczyk:

Do you like reading a guide? Confuse to looking for your chosen book? Or your book was rare? Why so many question for the book? But virtually any people feel that they enjoy to get reading. Some people likes studying, not only science book but also novel and The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) or maybe others sources were given understanding for you. After you know how the truly amazing a book, you feel need to read more and more. Science guide was created for teacher or even students especially. Those books are helping them to increase their knowledge. In other case, beside science reserve, any other book likes The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) to make your spare time more colorful. Many types of book like this.

**Download and Read Online The Garbage Collection Handbook:
The Art of Automatic Memory Management (Chapman &
Hall/CRC Applied Algorithms and Data Structures series) By
Richard Jones, Antony Hosking, Eliot Moss #X31B2WNHFEQ**

Read The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) By Richard Jones, Antony Hosking, Eliot Moss for online ebook

The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) By Richard Jones, Antony Hosking, Eliot Moss Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) By Richard Jones, Antony Hosking, Eliot Moss books to read online.

Online The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) By Richard Jones, Antony Hosking, Eliot Moss ebook PDF download

The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) By Richard Jones, Antony Hosking, Eliot Moss Doc

The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) By Richard Jones, Antony Hosking, Eliot Moss MobiPocket

The Garbage Collection Handbook: The Art of Automatic Memory Management (Chapman & Hall/CRC Applied Algorithms and Data Structures series) By Richard Jones, Antony Hosking, Eliot Moss EPub