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The Art of Multiprocessor Programming Description. The Art of Multiprocessor Programming, Second Edition, provides users with an authoritative guide to... About the Authors. Maurice Herlihy received an A.B. in Mathematics from Harvard University, and a Ph.D. in Computer...

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Revised and updated with improvements conceived in parallel programming courses, The Art of Multiprocessor Programming is an authoritative guide to multicore programming. It introduces a higher level set of software development skills than that needed for efficient single-core programming. This book provides comprehensive coverage of the new principles, algorithms, and tools necessary for effective multiprocessor programming.

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The Art of Multiprocessor Programming Version of 10 February 2009 In many places, inserted text is highlighted in red. Preface p. xx “all of which are useful in structuring concurrent applications.” Chapter 1 p. 4 In Fig. 1.1, line 4 should say for (int j = (i \* block) + 1; j <= (i + 1)\* block; j++) { p. 11 p. 18

## The Art of Multiprocessor Programming

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Programming Maurice Herlihy Nir Shavit AMSTERDAM

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Description. Revised and updated with improvements conceived in parallel programming courses, The Art of Multiprocessor... About the Authors. Maurice Herlihy received an A.B. in Mathematics from Harvard University, and a Ph.D. in Computer...

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Art of Multiprocessor Programming 12 Locks Not Composable  
Lock source Lock target Unlock source & target Methods cannot provide internal synchronization Objects must expose locking protocols to clients Clients must devise and follow protocols  
Abstraction broken! 13 Monitor Wait and Signal zzz Empty buffer

## Art of Multiprocessor Programming - Brown University

The Art of Multiprocessor Programming. January 2008; DOI: 10.1145/1146381.1146382. Source; DBLP; ... We consider various state-of-the-art x86 architectures: Intel Haswell, Xeon Phi, Ivy Bridge ...

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## [The Art of Multiprocessor Programming | Maurice Herlihy ...](#)

The concepts are correct and the theory is good but I cannot accept someone to say is teaching "The art of multiprocessor programming" in Java. Java has very few problems in concurrency due to simplification. A much better book is "C++ Concurrency in Action", because C++ exposes low level problems in concurrency.

## [The Art of Multiprocessor Programming, Revised Reprint ...](#)

The Art of Multiprocessor Programming is an outstanding text that will soon become a classic. I give a chapter by chapter review of it below. Practitioners that are already well versed in parallel programming can jump directly to Chapter 7, however, I would suggest at least skimming Chapters 2, 3 and 4.

## [Art of Multiprocessor Programming: Amazon.com: Books](#)

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As the computer industry changes from single-processor to multiprocessor architectures, this revolution requires a fundamental change in how programs are written. To leverage the performance and power of multiprocessor programming, also known as multicore programming, you need to learn the new principles, algorithms, and tools presented in this book.

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