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The concepts are  
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programming" in Java.  
Java has very few

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problems in  
concurrency due to  
simplification. A much  
better book is " C++  
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because C++ exposes  
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Maurice Herlihy  
Nir Shavit AMSTERDAM  
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available for  
programming  
multiprocessor  
machines. As the  
computer industry  
changes from single-

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processor to  
multiprocessor  
architectures, this  
revolution requires a  
fundamental change in  
how programs are  
written.

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Multiprocessor  
Programming by  
Maurice Herlihy and Nir  
Shavit . Additional  
readings/references  
will be provided when  
necessary.

Prerequisites (Courses)

Core Programming .

Prerequisites (Other)

Familiarity with C, Java,  
and/or Python.

Satisfies: Core Systems

**Parallel**

**Programming - mpcs**

**-courses.cs.uchicago**

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The art of multiprocessor programming, currently mastered by few, is more complex than programming uniprocessor machines, and requires an understanding of new computational principles, algorithms, and programming tools. Concurrent computation on uniprocessor and multiprocessor

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architectures have  
many aspects in  
common.

## **CS1760: Multiprocessor Synchronization - Brown University**

CuckooMap,  
CuckooSet: [2008]  
Maurice Herlihy, Nir  
Shavit "The Art of  
Multiprocessor  
Programming"  
SkipListMap,  
SkipListSet: [2008]  
Maurice Herlihy, Nir



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Shavit "The Art of  
Multiprocessor  
Programming"  
FeldmanHashMap,  
FeldmanHashSet:  
[2013] Steven  
Feldman, Pierre  
LaBorde, Damian  
Dechev "Concurrent  
Multi-level Arrays: Wait-  
free Extensible Hash  
Maps".

**GitHub -  
khizmax/libcds: A  
C++ library of  
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Abstract. This book is  
the first  
comprehensive  
presentation of the  
principles and tools  
available for  
programming  
multiprocessor  
machines. It is of  
immediate use to

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programmers working with the new architectures. For example, the next generation of computer game consoles will all be multiprocessor ...

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to be the first  
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presentation of the principles and tools available for programming multiprocessor machines. As the computer industry...

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low level problems in  
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Programming is a  
guide to multi-core  
programming on Linux  
platform which has the  
flexibility to control  
individual cores for  
efficient distribution of

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threads and process to be uniquely run on those cores. This book is of advanced level and does not give an insightful view to the beginner students of this field.

## **The Art of Multiprocessor Programming by Maurice Herlihy**

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based on the book,  
teaching materials (a  
complete set of Slides,  
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