**Blue Waters Petascale Semester Curriculum v1.0**

**Unit 2: Parallel Computing Concepts**

**Lesson 5: Parallel Algorithms 2**

**References / Further Reading**

*Developed by Beau Christ for the Shodor Education Foundation, Inc.*



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*Browse and search the full curriculum at*[*http://shodor.org/petascale/materials/semester-curriculum*](http://shodor.org/petascale/materials/semester-curriculum)

*We welcome your improvements! You can submit your proposed changes to this material and the rest of the curriculum in our GitHub repository at*[*https://github.com/shodor-education/petascale-semester-curriculum*](https://github.com/shodor-education/petascale-semester-curriculum)

*We want to hear from you! Please let us know your experiences using this material by sending email to* [*petascale@shodor.org*](mailto:petascale@shodor.org)

Module 12.2 of the following reference provides a nice introduction to parallel algorithms, while 13.2 gets into using matrices as discussed in this lesson:

Angela B. Shiflet and George W. Shiflet. 2014. Introduction to Computational Science: Modeling and Simulation for the Sciences (Second Edition) (2nd. ed.). Princeton University Press, USA.

The following textbook is a great introduction to basic parallel programming, and includes implementations to all of the examples discussed in this lesson:

*Peter Pacheco. 2011. An Introduction to Parallel Programming(1st. ed.). Morgan Kaufmann Publishers Inc., San Francisco, CA, USA.*