

CS 787
Fall 2010
Reference Books

The following books will be on two-hour reserve at Wendt Library.

1. Cormen, Leiserson, Rivest, and Stein, Introduction to Algorithms.

Encyclopedic and relatively free of logical dependencies, so you can profitably open it up just about anywhere and start reading.

2. Lawler, Combinatorial Optimization: Networks and Matroids.

Tired of ad hoc approaches to an ever-growing list of combinatorial problems? This is the book for you. Emphasizes general methods (e.g. network flow, matroid intersection).

3. Kozen, The Design and Analysis of Algorithms.

Engaging set of lectures for a Cornell University course comparable to CS 787.

4. Motwani and Raghavan, Randomized Algorithms.

Recent algorithms book with randomization as the unifying concept.

5. Vazirani, Approximation Algorithms.

A tour of combinatorial optimization with emphasis on algorithms for approximate solutions to NP-hard problems.