CS 812
Spring 2024
Reference Books

The following books will be placed on reserve at the AMP (Astronomy, Math, Physics) Library.

1. E. Bach and J. Shallit, Algorithmic Number Theory, Volume 1: Efficient Algorithms, MIT Press, 1996.

2. R. Crandall and C. Pomerance, Prime Numbers: A Computational Perspective, 2nd edn., Springer-Verlag, 2005.

3. D. E. Knuth, The Art of Computer Programming, vol. 2: Seminumerical Algorithms, 3rd edn., Addison-Wesley, 1998.

4. N. Koblitz, A Course in Number Theory and Cryptography, 2nd edn., Springer-Verlag, 1987.

For background material, I can recommend the following books. All are classics and have gone through many editions.

5. G. H. Hardy and E. M. Wright, An Introduction to the Theory of Numbers, Oxford Univ. Press.

6. G. Birkhoff and S. MacLane, A Survey of Modern Algebra, Macmillan.

7. W. Feller, An Introduction to Probability Theory and its Applications, Volume 1, Wiley