

Finally, in chapters 8 and 9 the basic material is extended to problems with special bases (e.g., Toeplitz systems, Vandermonde matrices) and nonlinear problems.

In summary, this is a wonderful book, suitable as a text as well as a research reference. What is missing? The important bases are all touched upon, though two timely topics are given rather brief treatment: parallel methods and the surprising effectiveness of the (modified) normal system approach in interior point methods for linear programming. There is some discussion of the latter, but it is brief and (already) a bit out of date.

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27[11-00]—*Number-theoretic function products*, by R. G. Buschman, Buschman, Langlois, OR, 1996, vi +69 pp., 28 cm, vinyl cover, spiral bound, \$12.50

In this work, the author has collected, for number-theoretic functions, properties for various products [Dirichlet, integer, lcm (Lehmer), Max, unitary, exponential, integral convolution]. Included are lists of specific products, multiple factor products, alternative factorizations (summation identities), and various inversion formulas.

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