

The unknown constants λ_i are still called *Lagrange multipliers*.

A.7 References

A valuable mathematical encyclopedia is the *Mathematical Handbook for Engineers and Scientists* by Korn & Korn [1968]. Difficult integrals can be looked up in the *Table of Integrals, Series, and Products* by Gradshteyn & Ryzhik [1980]. All elementary and many special functions can be found in the *Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables* edited by Abramowitz & Stegun [1964]. Smaller collections of this kind of information may be found in Burington's *Handbook of Mathematical Tables and Formulas* [1973] and Dwight's *Tables of Integrals and Other Mathematical Data* [1964].

Chisholm provides an elementary treatment of vectors in *Vectors in Three-Dimensional Space* [1978], while Schey deals with differential operators applied to vectors in *Div, Grad, Curl, and All That: An Informal Text on Vector Calculus* [1973]. Generally useful mathematical tools are covered in many books, such as Hildebrand's *Methods of Applied Mathematics* [1952].

There is no shortage of books on probability and statistics. One such is Drake's *Fundamentals of Applied Probability Theory* [1967].

The calculus of variations is explained in *Methods of Mathematical Physics*, volume I, by Courant & Hilbert [1953] and *Calculus of Variations: With Applications to Physics & Engineering* by Weinstock [1974].

Least-squares methods often lead to problems that can be tackled using the pseudoinverse. Here one can recommend Albert's *Regression and the Moore-Penrose Pseudoinverse* [1972]. Gill, Murray, & Wright cover practical aspects of optimization problems in *Practical Optimization* [1981]. Deeper coverage of the theoretical issues can be found in Luenberger's *Introduction to Linear and Nonlinear Programming* [1973].

Numerical methods are covered in such books as *Elementary Numerical Analysis—an Algorithmic Approach* by Conte & de Boor [1972] and Hamming's *Numerical Methods for Scientists and Engineers* [1962].

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