

# Bibliography

1. N. I. Akhiezer, *The Calculus of Variations*, Blaisdell Publishing Company, New York, 1962.
2. A. M. Arthurs, *Calculus of Variations*, Routledge & Kegan Paul, London, 1975.
3. M. Athans and P. L. Falb, *Optimal Control*, McGraw-Hill, New York, 1966.
4. D. J. Bell and D. H. Jacobson, *Singular Optimal Control Problems*, Academic Press, London, 1975.
5. G. A. Bliss, *Calculus of Variations*, Open Court Publishing Company, La Salle, Illinois, 1925.
6. O. Bolza, *Lectures on the Calculus of Variations*, 3rd ed., Chelsea Publishing Company, New York, 1973, edited reprint of 1904 original.
7. L. Brand, *Differential and Difference Equations*, Wiley, New York, 1966.
8. A. E. Bryson and Y.-C. Ho, *Applied Optimal Control*, Hemisphere Publishing, Washington, D.C., 1975.
9. P. Chen and S. M. N. Islam, *Optimal Control Models in Finance*, Springer, New York, 2005.
10. C. W. Clark, *Mathematical Bioeconomics: The Optimal Management of Renewable Resources*, 2nd ed., John Wiley, New York, 1990.
11. J. C. Clegg, *Calculus of Variations*, Oliver & Boyd, Edinburgh, 1968.
12. M. M. Connors and D. Teichroew, *Optimal Control of Dynamic Operations Research Models*, International Textbook Company, Scranton, Pennsylvania, 1967.

13. L. E. Elsgolc, *Calculus of Variations*, Addison-Wesley, Reading, Massachusetts, 1962.
14. G. M. Ewing, *Calculus of Variations with Applications*, Norton, New York, 1969.
15. J. Franks, *A (Terse) Introduction to Lebesgue Integration*, American Mathematical Society, Providence, Rhode Island, 2009.
16. I. M. Gelfand and S. V. Fomin, *Calculus of Variations*, Prentice Hall, Englewood Cliffs, New Jersey, 1963.
17. H. H. Goldstine, *A History of the Calculus of Variations from the 17th through the 19th Century*, Springer, New York, 1980.
18. D. Grass, J. P. Caulkins, G. Feichtinger, G. Tragler, and D. A. Behrens, *Optimal Control of Nonlinear Processes*, Springer, Berlin, 2008.
19. G. Hadley and M. C. Kemp, *Variational Methods in Economics*, North Holland, Amsterdam, 1971.
20. M. R. Hestenes, *Calculus of Variations and Optimal Control Theory*, John Wiley, New York, 1966.
21. S. Hildebrandt and A. Tromba, *The Parsimonious Universe: Shape and Form in the Natural World*, Springer, New York, 1996.
22. L. M. Hocking, *Optimal Control: An Introduction to the Theory with Applications*, Clarendon Press, Oxford, 1991.
23. G. H. Howison and J. Ray, *A Treatise on Analytic Geometry*, Wilson, Hinkle & Co., Cincinnati, Ohio, 1869.
24. R. G. Huffaker, M. G. Bhat, and S. M. Lenhart, *Optimal trapping strategies for diffusing nuisance-beaver populations*, Natural Resource Modeling **6** (1992), 71–97.
25. E. L. Ince, *Ordinary Differential Equations*, Dover, New York, 1956, reprint of 1926 original.
26. M. I. Kamien and N. L. Schwartz, *Dynamic Optimization: The Calculus of Variations and Optimal Control in Economics and Management*, North Holland, New York, 1981.
27. M. Kimmel and A. Swierniak, *Control theory approach to cancer chemotherapy: benefiting from phase dependence and overcoming drug resistance*, Tutorials in Mathematical Biosciences III: Cell Cycle, Proliferation, and Cancer (A. Friedman, ed.), Lecture Notes in Mathematics, vol. 1872, Springer, 2006, pp. 185–221.
28. G. Knowles, *An Introduction to Applied Optimal Control*, Academic Press, New York, 1981.
29. A. N. Kolmogorov and S. V. Fomin, *Elements of the Theory of Functions and Functional Analysis*, Dover, Mineola, New York, 1999, reprint of 1957 (Volume 1) and 1961 (Volume 2) originals.

30. E. Kreyszig, *Introductory Functional Analysis with Applications*, Wiley, New York, 1977.
31. P. D. Lax, *Functional Analysis*, Wiley, New York, 2002.
32. L. P. Lebedev and M. J. Cloud, *The Calculus of Variations and Functional Analysis: With Optimal Control and Applications in Mechanics*, World Scientific, London, 2003.
33. E. B. Lee and L. Markus, *Foundations of Optimal Control Theory*, John Wiley, New York, 1967.
34. G. Leitmann, *The Calculus of Variations and Optimal Control*, Plenum Press, New York, 1981.
35. S. Lenhart and J. T. Workman, *Optimal Control Applied to Biological Models*, Chapman & Hall/CRC, Boca Raton, Florida, 2007.
36. R. Levins, *The strategy of model building in population biology*, American Scientist **54** (1966), 421–431.
37. R. Martin and K. L. Teo, *Optimal Control of Drug Administration in Cancer Chemotherapy*, World Scientific, Singapore, 1994.
38. E. A. Maxwell, *An Analytical Calculus*, vol. 2, Cambridge University Press, Cambridge, 1954.
39. I. McCausland, *Introduction to Optimal Control*, John Wiley, New York, 1969.
40. J. P. McDanell and W. F. Powers, *Necessary conditions for joining optimal singular and nonsingular subarcs*, SIAM Journal on Control **9** (1971), 161–173.
41. M. Mesterton-Gibbons, *On the optimal policy for combined harvesting of independent species*, Natural Resource Modeling **2** (1987), 109–134.
42. ———, *On the optimal policy for combining harvesting of predator and prey*, Natural Resource Modeling **3** (1988), 63–90.
43. ———, *A technique for finding optimal two-species harvesting policies*, Ecological Modelling **92** (1996), 235–244.
44. ———, *A Concrete Approach to Mathematical Modelling*, John Wiley, New York, 2007, corrected reprint of 1989 original.
45. R. K. Nesbet, *Variational Principles and Methods in Theoretical Physics and Chemistry*, Cambridge University Press, Cambridge, 2003.
46. S. E. Page, *The Difference: How the Power of Diversity Creates Better Groups, Firms, Schools, and Societies*, Princeton University Press, Princeton, New Jersey, 2007.
47. L. A. Pars, *An Introduction to the Calculus of Variations*, John Wiley, New York, 1962.
48. ———, *A Treatise on Analytical Dynamics*, John Wiley, New York, 1965.

49. I. P. Petrov, *Variational Methods in Optimum Control Theory*, Academic Press, New York, 1968.
50. E. R. Pinch, *Optimal Control and the Calculus of Variations*, Oxford University Press, Oxford, 1993.
51. L. S. Pontryagin, V. G. Boltyanskii, R. V. Gamkrelidze, and E. F. Mishchenko, *The Mathematical Theory of Optimal Processes*, L. S. Pontryagin Selected Works (R. V. Gamkrelidze, ed.), vol. 4, Gordon and Breach, New York, 1986, revised translation of 1961 Russian original.
52. D. L. Ragozin and G. Brown, *Harvest policies and nonmarket valuation in a predator-prey system*, Journal of Environmental Economics and Management **12** (1985), 155–168.
53. F. P. J. Rimrott and W. M. Szczygielski, *Analogies between the Chaplygin problem and the Kepler problem*, Technische Mechanik **15** (1995), no. 4, 315–324.
54. R. T. Rockafellar, *Convex Analysis*, Princeton University Press, Princeton, New Jersey, 1970.
55. W. Rudin, *Functional Analysis*, 2nd ed., McGraw-Hill, New York, 1991.
56. H. Ruskeepää, *Mathematica® Navigator*, 2nd ed., Academic Press, Amsterdam, 2004.
57. S. P. Sethi and G. L. Thompson, *Optimal Control Theory: Applications to Management Science and Economics*, 2nd ed., Springer, New York, 2000.
58. G. W. Swan, *Applications of Optimal Control Theory in Biomedicine*, Marcel Dekker, New York, 1984.
59. G. W. Swan and T. L. Vincent, *Optimal control analysis in the chemotherapy of IgG multiple myeloma*, Bulletin of Mathematical Biology **39** (1977), 317–337.
60. J. L. Troutman, *Variational Calculus with Elementary Convexity*, Springer, New York, 1983.
61. T. L. Vincent and W. J. Grantham, *Nonlinear and Optimal Control Systems*, John Wiley, New York, 1997.
62. F. Y. M. Wan, *Introduction to the Calculus of Variations with Applications*, Chapman & Hall, New York, 1995.
63. R. Weinstock, *Calculus of Variations: With Applications to Physics and Engineering*, Dover, New York, 1974, reprint of 1952 original.
64. J. Wilen and G. Brown, *Optimal recovery paths for perturbations of trophic level bioeconomic systems*, Journal of Environmental Economics and Management **13** (1986), 225–234.
65. L. C. Young, *Lectures on the Calculus of Variations and Optimal Control Theory*, 2nd ed., Chelsea Publishing Company, New York, 1980.