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It refines and extends the author's earlier text on variational calculus and a supplement on optimal control. It is the only current introductory text that uses elementary partial convexity of differentiable functions to characterize directly the solutions of some minimization problems before exploring necessary conditions for optimality or field theory methods of sufficiency.

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[Variational Calculus, Optimal Control and Applications](#)...

Variational Calculus and Optimal Control: Optimization with Elementary Convexity John L. Troutman I had read/studied most of this book when I was a graduate student in chemical engineering at Syracuse University (in 1987-88).

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3.2 Calculus of variations versus optimal control; 3.3 Optimal control problem formulation and assumptions. 3.3.1 Control system; 3.3.2 Cost functional; 3.3.3 Target set. 3.4 Variational approach to the fixed-time, free-endpoint problem. 3.4.1 Preliminaries; 3.4.2 First variation; 3.4.3 Second variation; 3.4.4 Some comments; 3.4.5 Critique of ...

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