

Vorlesung
Allgemeine Variationsmethoden I
Wintersemester 08/09

als Grundlage: [Dac89, ET76]
zum Vertiefen: [GH96, Str90, Zei86]
Weiterführendes über nichtlineare Elastizität: [Cia93]
Funktionalanalysis z.B. [Wer00, Alt02]

Literatur

- [Alt02] H. W. Alt. *Lineare Funktionalanalysis*. Springer-Verlag, Berlin, Heidelberg, 4 edition, 2002.
- [Cia93] P. G. Ciarlet. *Mathematical Elasticity*, volume 1, Three-dimensional Elasticity. North Holland, Amsterdam, 1993.
- [Dac89] B. Dacorogna. *Direct Methods in the Calculus of Variations*. Springer-Verlag, 1989.
- [ET76] I. Ekeland and R. Temam. *Convex analysis and variational problems*, volume 1 of *Studies in Mathematics and its Applications*. American Elsevier Publishing Company, New York, 1976.
- [GH96] M. Giaquinta and S. Hildebrandt. *Calculus of Variations I*. Springer-Verlag, Berlin, Heidelberg, 1996.
- [Str90] M. Struwe. *Variational methods. Applications to nonlinear partial differential equations and Hamiltonian systems*. Springer-Verlag, Berlin, 1990.
- [Wer00] D. Werner. *Funktionalanalysis*. Springer Verlag, Berlin, Heidelberg, New York, 3 edition, 2000.
- [Zei86] E. Zeidler. *Nonlinear Functional Analysis and its Applications*, volume 3 Variational Methods and Optimization. Springer Verlag Inc., New York, 1986.