Empfohlene Literatur zur Vorlesung

- **Evans** [2]
- **Strauss** [17]
- Gajewski u.a. [4]
- Wloka [19]

Weiterführende Literatur

Klassische Lösungen partieller Differentialgleichungen

Petrowsky [15], Zachmanoglou und Thoe [20]

Schwache Lösungen elliptischer Gleichungen:

Goering u.a. [5], Ladyzhenskaya u.a. [8], [10], Lions und Magenes [11] (Standardwerk), Mikhailov [12], Protter und Weinberger [16], Barbu [1], Goering u.a. [5]

Schwache Lösungen parabolischer Gleichungen:

Ladyzhenskaya u.a. [8], [9], Lions und Magenes [11]

Integralgleichungsmethode durch Halbgruppen:

Friedman [3], Goldstein [6], Henry [7], Protter und Weinberger [16], Pavel [13], Pazy [14], Tanabe [18]

Maximumprinzipien:

Protter und Weinberger [16]

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[2] Evans. *Partial Differential Equations*. American Mathematical Society, Providence, Rhode Island, 1998.

[3] A. Friedman. Optimal control for parabolic equations. *J.Math.Anal.Appl.*, 18:479–491, 1967.

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[17] W.A. Strauss. *Partielle Differentialgleichungen.* Vieweg, Braunschweig, 1995.

[18] H. Tanabe. *Equations of evolution.* Pitman, London, 1979.

[19] J. Wloka. *Partielle Differentialgleichungen.* B.G. Teubner Verlagsgesellschaft, Leipzig, 1982.

[20] E.C. Zachmanoglou and D.W. Thoe. *Introduction to Partial Differential Equations with Applications.* Dover, Mineola, 1986.