



Literature for MATM43, Mathematics: Specialised Course in Differential Geometry applies from spring semester 2021

**Literature established by Study programmes board, Faculty of Science on
2020-06-02 to apply from 2020-06-02**

Enligt fastställd litteraturlista, vilken skall finnas tillgänglig senast fem veckor före kursstart. Se webbsidorna för Matematik NF.

See appendix.

29 maj 2020



LUNDS
UNIVERSITET

Matematikcentrum

Matematik

Litteraturlista för MATM43 Fördjupningskurs till differentialgeometri

Literature list for Specialised Course on Differential Geometry

Föreläsningssanteckningar tillhandahålles av institutionen. Lecture notes are provided by the department.

- S. Gudmundsson, *An Introduction to Riemannian Geometry*, Lund University (2020).

Nedanstående böcker rekommenderas som bredvidläsning. The books below are recommended as complementary reading.

- M. P. do Carmo, *Riemannian Geometry*, Birkhäuser (1992).
- D. Gromoll, W. Klingenberg, W. Meyer, *Riemannsche Geometrie im Grossen*, Lecture Notes in Math. 55, Springer (1975).
- W. Klingenberg, *Riemannian Geometry*, de Gruyter (1995).
- W. Kühnel, *Differential Geometry: Curves - Surfaces - Manifolds*, AMS (2006).
- Serge Lang, *Fundamentals of Differential Geometry*, Springer (1999).
- John M. Lee, *Riemannian Manifolds*, Springer (1997).
- B. O'Neill, *Semi-Riemannian Geometry*, Academic Press (1983).
- P. Petersen, *Riemannian Geometry*, Springer (2006).
- T. Sakai, *Riemannian Geometry*, Translations of Mathematical Monographs 149, AMS (1996).
- M Spivak, *A Comprehensive Introduction to Differential Geometry*, Publish or Perish (1979).