Finsler geometry

1. Finsler spaces

2. Geodesics

3. Horizontal tangent bundle

4. Chern connection

5. Covariant derivative

6. Volumes in Finsler space

7. Geodesic flow

8. Riemann curvature

9. Chern curvature

10. Structural equations

11. Second variation formula

12. Exponential mapping

13. Jacobi fields

14. Conjugate and injectivity radius

15. Comparison theorems

Literature:

1. Bao, D., Chern, S.-S., Shen, Z. A.: An Introduction to Riemann-Finsler geometry, Springer 2000.

2. Shen, Z.: Lectures on Finsler geometry, WS 2001.