

# Classical Potential Theory

## Summer Semester 2017

1. Certain properties of harmonic functions.
2. Superharmonic functions.
3. Polar sets.
4. Classical potentials.
5. Classic capacities:
6. Sweeping.
7. Thin sets
8. Dirichlet Problem
9. Green function
10. Dirichlet Principle and Energy.

### References

1. M. Brelot, Elements of classic Potential Theory, Centre de Documentation, Univ. Paris, 2nd edition 1961.
2. D.H. Armitage and S.J. Gardiner, Classical Potential Theory, Springer 2001.
3. N.S. Landkoff, Foundation of Potential Theory, Nauka 1965.