

## **OPTICS**

1. Wave motion, wave equations
2. Electromagnetic waves
3. Reflection and refraction of waves
4. Waveguides, optical fibers
5. Interference of waves
6. Geometrical optics
7. Fourier optics
8. Dispersion
9. Coherence
10. Diffraction Gaussian beams
11. Fraunhofer diffraction
12. Fresnel diffraction
13. Optical anizotropy
14. Optical modulation

### Recommended reading:

- R.Guenter: Modern Optics, John Wiley and Sons, 1990.
- A.Nussbaum, R.A. Phillips: Modern Optika, Műszaki Könyvkiadó, 1982.
- E.Hecht, A.Zajac: Optics, Addison Wesley, 1980.