Pytania egzaminacyjne: Electrical Engineering ( II )

1. Electrical filters – types and design procedures
2. Sensitivity of electrical circuits – basic definitions and calculation methods
3. Nonlinear electrical circuits - elements and their descriptions
4. Switched capacitor circuits – storistor – resistor models
5. Numerical methods of integration of differential equations
6. Approximation and interpolation problems
7. Solution of algebraic system of equations
8. Multilayer perceptron
9. Radial basis function networks
10. Support vector machine
11. Prediction of time series
12. Problem of generalization in artificial intelligence
13. Solar energy
14. Technologies in electrical energy storage
15. Bridge methods of measurements
16. Analog to digital conversion
17. Discrete Fourier transformation
18. Modeling of rotating machines
19. Notion of probability
20. Statistical moments