

Lectures 2, 3, 4, 5 – contents

Thursday, 08/30/2006

- Lecture 2. Taylor's Theorem. Convergence of Taylor series. Approximating function values by partial sums of their Taylor series.
- Lecture 3. Machine representation of real numbers on `Marc-32`. Round-off error.
- Lecture 4. Propagation of round-off error in basic operations. Loss of significance. Basics of linear systems.
- Lecture 5. Direct methods for solving linear systems. Elementary matrices. Gaussian elimination and LU factorization.