LectureLectureMonday 10:15-11:45Saturday 10:15-11:45Ist weekGauss elemination, vector1st weekspaces, linear independence, basis,2nd weekbasis transzform, linear transformation, determinant3rd weekeigenvalues, eigenvectors, scalar product, orthogonal matrices, symmetric matrices, Gram- Schmidt orthogonalization,4th weektrace, quadratic form, Gauss- Jordan elemination, fundamental subspaces, dimension theorems, orthogonal projections,6th weekmethod of smallest squares, positive definit matrices, singular values, polar decomposition, spectral decomposition, spectral decomposition, string, Bernoulli solution,7th weeksine Fourier-series, vibrating string, Bernoulli solution, 8th week10th weekD'Alambert's solution, infinite length rod, Heat equation11th weekvector analysis, line integral, vector analysis, line			
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Curl-test on plane, on space,		Curl-test on plane, on space,	
12th week potential function, surface	12th week	potential function, surface	
integrals,		integrals,	
13th week Gauss theorem, Stokes theorem	13th week	Gauss theorem, Stokes theorem	
14th week Green theorem, surfaces	14th week	Green theorem, surfaces	