

Analysis of Rods and Frames (MSc)

BME EOTM MN63

2nd semester, 2018/19

Week	Lectures/exercises (Thursday 14.15-16.00, KM78)	
1	FEB 7	Basics of mathematics: matrix algebra, coordinate systems, calculus
2	FEB 14	Frames: characteristics of a general bar element (of curved axis and variable cross section), basic relationships
3	FEB 21	Frames: stiffness matrix and reduced load vector
4	FEB 28	Frames: special connections (eccentric, elastic, partial)
5	MAR 7	Frames: solutions with the displacement method
6	MAR 14	Special cases: planar frames
7	MAR 28	Test 1: Frames
8	APR 4	Special cases: grid structures
9	APR 11	Special cases: trusses
10	APR 18	Special cases: beams on elastic foundations, infilled frames
11	APR 25	Higher-order theories: suspension bridges
12	MAY 2	Higher-order theories: bar networks
13	MAY 9	Preparation for Test 2
14	MAY 16	Test 2: Special structures

Budapest, 13th December 2018

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