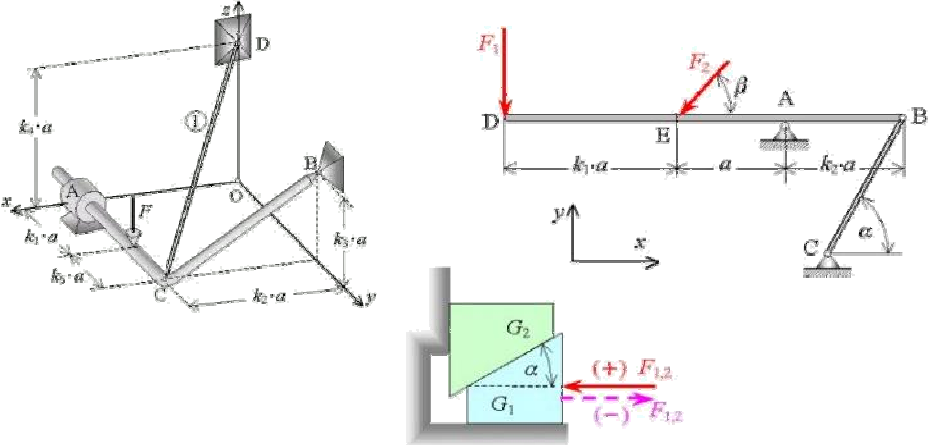
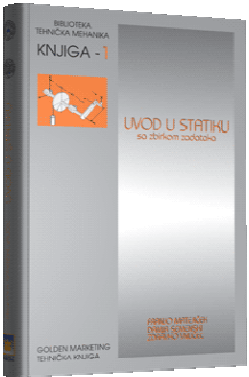




Teaching work, research and general interests - GORAN MATANIĆ

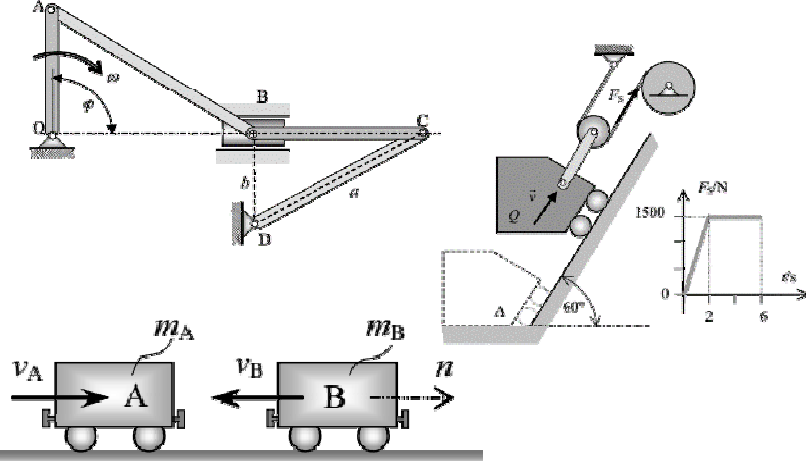
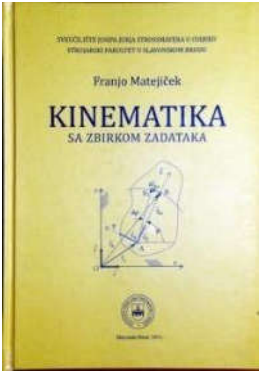
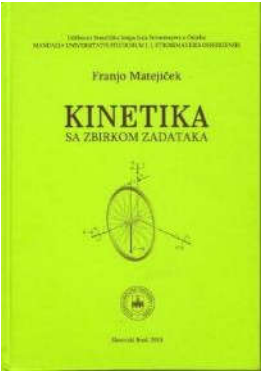
Mechanical Engineering Faculty in Slavonski Brod

PREGRADUATE STUDY:



- **Mechanics 1**
 - Static problems

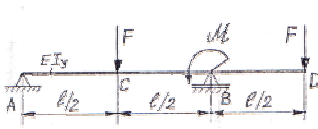
- **Mechanics 2**
 - Dynamic problems



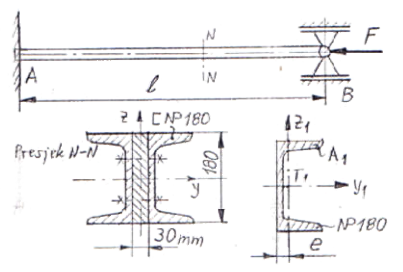
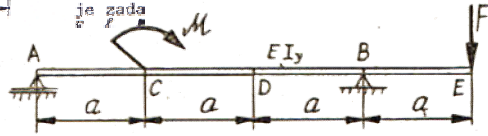
- **Strength of materials**



a) proraču
b) proraču
Zadano:



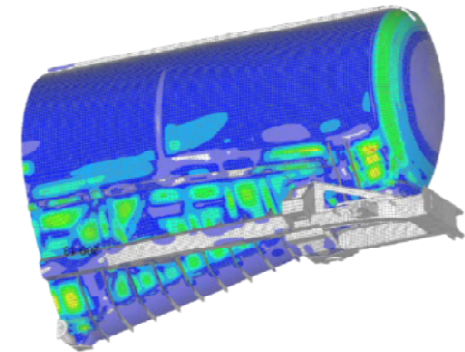
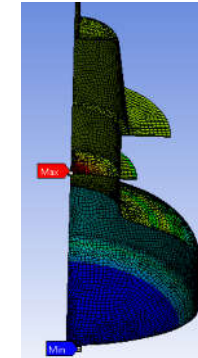
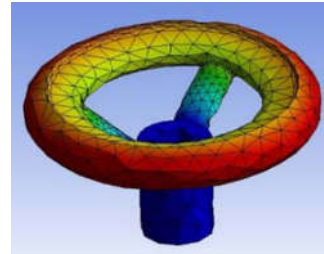
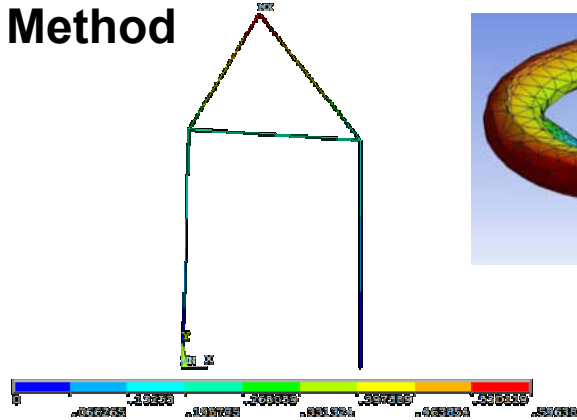
3. Za ravn slici n progibe sjecima elasticu je pada



GRADUATE STUDY:

• Finite Elements Method

$$k = EI \begin{bmatrix} \frac{12}{l^3} & -\frac{6}{l^2} & -\frac{12}{l^3} & -\frac{6}{l^2} \\ -\frac{6}{l^2} & \frac{4}{l} & \frac{6}{l^2} & \frac{2}{l} \\ -\frac{12}{l^3} & \frac{6}{l^2} & \frac{12}{l^3} & \frac{6}{l^2} \\ -\frac{6}{l^2} & \frac{2}{l} & \frac{6}{l^2} & \frac{4}{l} \end{bmatrix}$$



• Pressure Equipment and Pipelines

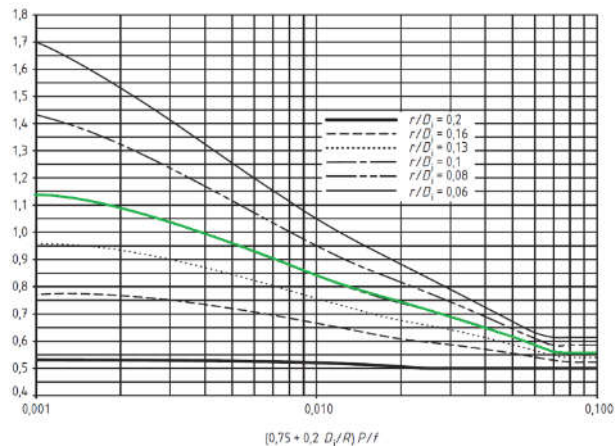
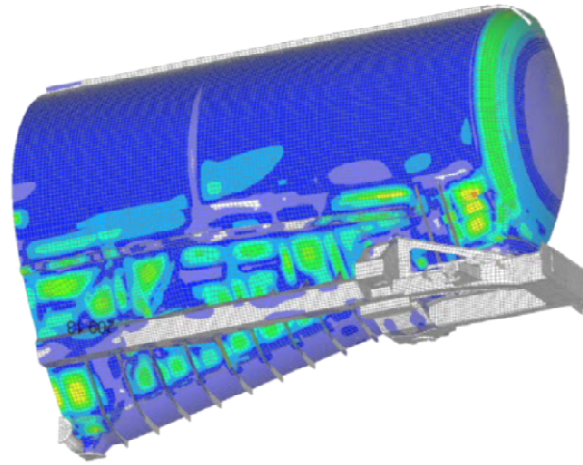


Table A-1 (continued)

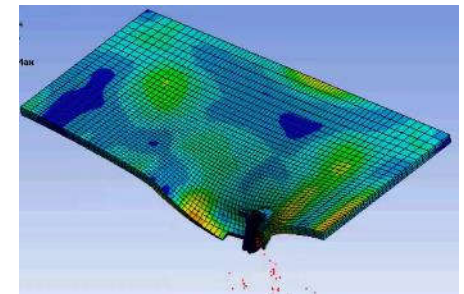
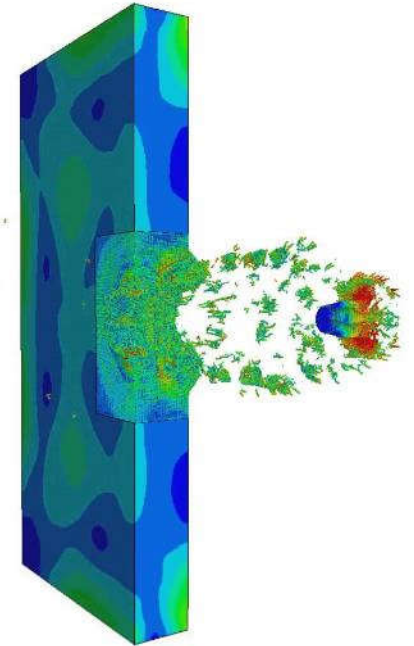
Group	Sub-group	Type of steel
4	4.1	Low alloy steel (C-Mn-Ni) steel with Mn 0,1% and Ni 0,1%
	4.2	Steels with Cr 0,0% and Ni 0,0%
5	5.1	C-Mn steel with Mn 0,1% and Ni 0,0%
	5.2	Steels with 0,01% C and 0,05% Mn and 0,0%
	5.3	Steels with 0,05% C and 0,05% Mn and 0,0%
	5.4	Steels with 0,05% C and 0,05% Mn and 0,0%
6	6.1	High alloy steel (C-Mn-Ni) steel
	6.2	Steels with 0,05% C and 0,05% Mn and 0,0%
	6.3	Steels with 0,05% C and 0,05% Mn and 0,0%
	6.4	Steels with 0,05% C and 0,05% Mn and 0,0%
7	7.1	Plain carbon steel
	7.2	High alloy steel
	7.3	High alloy steel
8	8.1	Austenitic steel
	8.2	Austenitic steel
	8.3	Austenitic steel
	8.4	Austenitic steel
	8.5	Austenitic steel
9	9.1	Aluminum alloy
	9.2	Aluminum alloy
	9.3	Aluminum alloy
10	10.1	Aluminum alloy
	10.2	Aluminum alloy
11	11.1	Aluminum alloy
	11.2	Aluminum alloy



Previous workplace:



Previous workplace:



Postgraduate doctoral study:

- Mechanical design
- Numerical simulations (FEM: Static/Dynamic)
- Design optimisation



Thank you for your attention!