

University of Ruse Angel Kanchev		
Department: Theoretical and measuring electrical engineering		
Course:		
Specialty:		
Student:		Fac. No:
Group:	Date:	Assistant:

Report № 3
Topic: Mutually coupled inductors.

Task 1. This task gives 6 points.

Goal of the task:

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Schematics of the experimental arrangement:

Quantity	Value
Inductor 1	
U_{IN}, V	
U_R, V	
U_{L1}, V	
I, A	
X_{L1}, Ω	
L_1, H	
Inductor 2	
U_{IN}, V	
U_R, V	
U_{L2}, V	

I, A	
X_{L2}, Ω	
L_2, H	

Task 2. This task gives 4 points.

Goal of the task:

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Schematics of the experimental arrangement:

Quantity	Value
U_{R1}, V	
U_{L2}, V	
I_1, A	
X_M, Ω	
M, H	
k	

Task 3. This task gives 8 points.

Goal of the task:

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Schematics of the experimental arrangement:

Quantity	Measured values	Estimated values
U_{RL}, V		
I_2, mA		

Analytical solution:

Conclusions: This task gives 2 points.

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