

30 декабря 2020 г.

Ведомость посещения занятий по преобразователям энергии студентами 6400 группы

		21 ноября	28 ноября	12 декабря						
1	Барановский Руслан		✓	✓						
2	Евстратов Владимир	✓		✓						
3	Задорожнюк Даниил Булатович		✓							
4	Иванченко Максим Вадимович		✓							
5	Маратов Мирас									
6	Обама Омбеде Николас Серж	✓	✓	✓						
7	Седельников Вячеслав	✓		✓						
8	Уильям Михаэль	✓	✓	✓						
9	Филатенков Павел Андреевич	✓	✓	✓						
10	Фомина Елизавета	✓	✓	✓						
11	Халил Зейн	✓	✓	✓						
12	Альмушреки Осама Абду Али	✓	✓							
13	Саид Амир	✓	✓							
14	Уллах Вахаб									
15	Содан Крешимир									
16	Масаве Паскаль Диоскори	✓		✓						

выполнение лабораторных работ, 6400 группа

		T1	T1	T2	T2	T3	T3	T4	T4	T5	T5	T6	T6	L1	L2						
1	Барановский Руслан	21.12	29.12	21.12	29.12					21.12	30.12										
2	Евстратов Владимир																				
3	Задорожнюк Даниил	19.12	19.12	19.12	29.12													25.12	29.12		
4	Иванченко Максим Вадимович	12.10	19.12	05.11	23.12					15.11	19.12					15.11	21.11	22.12	23.12		
5	Маратов Мирас	20.12	29.12	06.11	29.12													20.12	30.12		
6	Обама Омбеде Николас Серж	10.10	17.10	21.11	21.11	05.12	23.12	22.12	23.12	22.12	23.12										
7	Седельников Вячеслав	19.12	19.12	20.12	29.12	21.12	—			24.12	30.12										
8	Уильям Михаэль	10.10	17.10	21.11	21.11	21.11	26.12	22.12	26.12	22.12	26.12										
9	Филатенков Павел	30.09	23.12	30.09	23.12	30.09	23.12	30.09	23.12	30.09	23.12										
10	Фомина Елизавета	12.12	12.12	20.12	29.12	20.12	19.12			20.12	26.12										
11	Халил Зейн	12.12	12.12							25.12	26.12										
12	Альмушреки Осама Абду Али	10.10	10.10							17.10	17.10					21.11	21.11	21.12	21.12	21.12	21.12
13	Саид Амир																				
14	Уллах Вахаб																				
15	Содан Крешимир																				
16	Масаве Паскаль Диоскори	20.12	29.12	26.12	29.12					—											

### 0.1 Task 1

- Ivanchenko – miss archive info,  $\beta$  is wrong
- ОБАМА Nicolas Serge – angles  $\alpha$ ,  $\gamma$  are not marked, actually initial version was screwed
- Масаве Паскаль Диоскори – miss to draw  $\alpha$ ,  $\gamma$
- Маратов Мирас – miss to draw  $\alpha$ ,  $\gamma$

### 0.2 Task 2 Covariant and contravariant

- Ivanchenko –  $T_a$  covers whole interval, it's one possible solution, another – is make  $m_1$  symmetric
- ОБАМА Nicolas Serge – very good, quickly fixed picture, archive info mistakenly has author as Filatenkov P.A.
- Маратов Мирас – miss archive info
- Седельников – in archive info autor is Alexandra (female)
- Барановский – miss archive info

- Масаве Паскаль Диоскори – at figure exchange m1 and m2

### 0.3 Task 3 Boost converter

- Ivanchenko – catch formula 10.18 "А так же отвечаю на вопрос. Мне кажется что формула для оценки емкости конденсатора (10.18) не верна, поскольку как написано в тексте выше энергия запасенная в катушке переходит в энергию поля конденсатора, однако это происходит не за период как указано в формуле, а лишь за то время , за которое катушка разряжается."  $C_{out} > \frac{i_{out}}{f \cdot \Delta U_{out}}$  – this equation is an estimation. As to me I estimate by decay capacitor by  $R_{load}$  (with lianerization exponent).
- OBAMA Nicolas Serge – good, title pages was doubled, in archive Subject and Keywords were intendently missed, this is no good.

### 0.4 Task 4 Checking data for boost converter using graphs

- Ivanchenko – has archive info, Graphs are right and have his numbers.
- OBAMA Nicolas Serge – According to the student's list yours number is 6.(in the report picked up 12)

### 0.5 Task 5 Down converter

- Ivanchenko – fixed archive info, report does not have code for the model. amplitude of ripples in  $V_{out}$  is very small.  $\Delta V_{out}$  should be roughly 10% from  $V_{out}$  as required. This lead to extra costs for capacitor. Inductors and capacitors are expencive.
- OBAMA Nicolas Serge – this interval [.0000501 - .0000520] instead of

Vs 4 0 PwL(0 0 .0000501 0 .0000520 1 .0002 1) r=0

could be made shorter

Vs 4 0 PwL(0 0 .0000520 0 .00005201 1 .0002 1) r=0

- Zain Khalil – archive info does not have author and subject, pictures have watermarks 'activate pirate software' , digits in reports have mixed locale: "1.2"and "1,2". Program model is inconsistent with graphs. C1 3 0 0.23F – 'u' sign was ommit here.  $R_{Load}$  is not present at all.
- Baranouski – archive info is absent: author, subject, keywords. amplitude of ripples in  $V_{out}$  is very small.  $\Delta V_{out}$  should be roughly 10% from  $V_{out}$  as required. This lead to extra costs for capacitor.
- Maratov – amplitude of ripples in  $V_{out}$  is very small.  $\Delta V_{out}$  should be roughly 10% from  $V_{out}$  as required. This lead to extra costs for capacitor.

- Sedelnikov – amplitude of both ripples in  $V_{out}$  and ripples in  $I_L$  are very small. amplitude of the ripples should be roughly 10% from correspondent average values. Program model is absent in the report.
- Zadorozhnyuk – archive info in pdf file has information from 1-st task. Inspector should be different student not me. amplitude of ripples in  $V_{out}$  is very small.
- Maratov – amplitude of both ripples in  $V_{out}$  and ripples in  $I_L$  are very small. amplitude of the ripples should be roughly 10% from correspondent average values. Program model is absent in the report.