



Bachelor thesis supervisor's review

CZECH TECHNICAL UNIVERSITY IN PRAGUE

Faculty of electrical engineering

Department of electrical power engineering

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Stimulus-frequency otoacoustic emissions measured using synchronized swept sines

Author: Yiming Peng

Thesis supervisor: Ing. Václav Vencovský, Ph.D.

Rating (1 – 5)
(1 = best; 5 = worst):

1. Fulfillment of assignment requirements:	<input type="text" value="1"/>
2. Self-reliance and initiative during the thesis solution:	<input type="text" value="2"/>
3. Systematic solutions of individual tasks:	<input type="text" value="3"/>
4. Ability to apply knowledge and to use literature:	<input type="text" value="3"/>
5. Collaboration and consultations with the thesis supervisor:	<input type="text" value="1"/>
6. Thesis formal and language level:	<input type="text" value="2"/>
7. Thesis readability and structuring:	<input type="text" value="1"/>
8. Thesis professional level:	<input type="text" value="3"/>
9. Conclusions and their formulation:	<input type="text" value="2"/>
10. Final mark evaluation (A, B, C, D, E, F):	<input type="text" value="B"/>

verbal: very good

Brief summary evaluation of the thesis (compulsory):

Yiming Peng in his thesis investigated whether we can use the synchronized swept sine technique to measure otoacoustic emissions evoked with a single tone if a suppressor is used during the measurement. This type of emission can be used to objectively measure frequency selectivity of the hearing system. The issue with this technique is that the components due to suppressor and probe tone may be too close and interfere. Yiming in his thesis calculated theoretical limits for the use of suppressor and experimentally proved that it is possible to use the technique if the suppressor phase is altered. The phase alteration almost completely cancel the suppressor response out. Yiming



was very initiative during his work. He conducted experiments in several subjects. He would be able to perform more experiments, but those were not possible due to time limits of our laboratory. The reason why my final mark is very good (B) is that he could be more independent in his work. In addition, his writing style sometimes tend to use too many vague phrases, which exaggerate the importance. However, this is not to say that the results of the thesis are not important. They provide valuable data, which will be employed in the future.

Date: 26.1. 2024

Signature: