

TABLE OF CONTENTS

List of symbols.....	7
1. EXPERIMENTAL STUDY OF VELOCITY PROFILE IN AERODYNAMIC TUNNEL (<i>Piotr Tarnawski</i>).....	9
1.1. Introduction	9
1.2. The aim of the research	9
1.2.1. Impact-pressure tubes.....	9
1.2.2. Venturi tube	10
1.2.3. Anemometers.....	11
1.3. Method of measurements.....	12
1.4. Developing results of measurements.....	13
1.5. Issues related to the topic of the task.....	14
Literature.....	14
2. EXPERIMENTAL DETERMINATION OF DRAG FORCE COEFFICIENT OF OBJECTS IN AERODYNAMIC TUNNEL (<i>Piotr Tarnawski</i>).....	15
2.1. Introduction	15
2.2. The aim of the research	15
2.3. Construction and operation of the test stand	18
2.4. Method of measurements	18
2.5. Developing results of measurements.....	19
2.6. Issues related to the topic of the task.....	19
Literature.....	20
3. CAVITATION IN THE CONSTRICTED SECTION OF THE PIPELINE (<i>Sebastian Bąk</i>)....	21
3.1. Introduction	21
3.2. Construction and operation of the test stand	26
3.3. Measurement methodology	27
3.4. Result processing.....	28
3.5. Scope of knowledge	28
References.....	28
4. DETERMINATION OF A LOCAL LOSS COEFFICIENT AND FRICTION FACTOR IN A PIPELINE (<i>Jarosław Kuśmierczyk</i>).....	30
4.1. Introduction	30
4.2. Description of the test stand	36
4.3. Measurement methodology	36
4.4. Report guidelines.....	37
4.5. Theoretical issues related to the topic of the exercise.....	37
References	37

5. REACTION FORCE ON A BEND DUE TO FLUID FLOW (<i>Lech Knap</i>)	38
5.1. Introduction	38
5.2. Construction and operation of the test stand	40
5.3. Measurement methodology	42
5.4. Result processing.....	43
5.5. Scope of knowledge	44
References and bibliography.....	45
6. STUDY OF CHANGES OF VISCOSITY OF A LIQUID DEPENDING ON TEMPERA- TURE (<i>Michał Makowski</i>).....	46
6.1. Introduction	46
6.2. The aim of the research	51
6.3. Test stand.....	51
6.4. Method of measurements	54
6.5. Developing results of measurements.....	55
6.6. Issues related to the topic of the task.....	57
Literature.....	58