

CONTENTS

Abstract	7
List of markings	8
1. Defining the problem of a change in the area storage of powder grain combustion from the point of a balance theory	11
2. Description of a two-chamber system in operation	13
3. Physical model of the interior ballistics of a two-chamber system	16
4. Geometric law of combustion	19
5. Average powder grain thickness in the engine during consecutive divisions	30
6. The creation phase and the determined phase of the division	33
7. The thickness and incremental thickness of burnt powder grain in individual divisions	36
8. Estimating the limits of powder grain storage and their average beginning dimensions during the divisions	37
9. Burning surface of powder grain in the engine in the i^{th} divisions	42
10. Estimating the accuracy of calculated division limits	57
11. Mathematical model of a two-chamber system	59
12. Summary and conclusions	74
Bibliography	77