
CONTENTS

FOREWORD	vii
NOTATIONS AND UNITS OF PHYSICAL QUANTITIES	ix

I. TABLES OF THERMODYNAMIC PROPERTIES OF GASES	1
Thermodynamic principles	1
Description of the tables	3
Region of applicability of the tables	5
Examples of use of the tables	9
II. THERMAL DIAGRAM FOR AIR AND PRODUCTS OF COMBUSTION OF A GIVEN FUEL	17
Method of constructing the diagram	17
Tables of calorific quantities for gases	20
Example of diagram construction	25
Example of diagram use	28

III. TABLES OF THERMODYNAMIC PROPERTIES OF VARIOUS GASES	35
Tables III.1, III.2. Air	36
Tables III.3, III.4. Nitrogen	65
Tables III.5, III.6. Atmospheric nitrogen	94
Tables III.7, III.8. Oxygen	123
Tables III.9, III.10. Carbon dioxide	152
Tables III.11, III.12. Water vapor	181
Tables III.13, III.14. Carbon monoxide	210
Tables III.15, III.16. Hydrogen	239
Table III.17. Helium	268