

CONTENTS

PART I, NAVAL BOILERS

CHAPTER	PAGE
I. Elementary Principles	3
II. Descriptive Classification	17
III. Limitations on Boiler Capacity	24
IV. Header Type Water-Tube Boilers	31
V. Three-Drum Express Boilers	40
VI. Superheat and Superheat Control	69
VII. Forced Circulation Boilers	78
VIII. Boiler Fittings	85
IX. Feed Water and Feed Water Systems	104
X. Fuel Oil and Fuel Oil Systems	123
Index	147

PART II, NAVAL AUXILIARY MACHINERY

I. Blowers	3
II. Piping, Flanges, Joints, Packing and Valves	15
III. Heat Insulation	46
IV. Pumps	57
V. Heat Exchanger Equipment	86
VI. Distilling Plants	97
VII. Refrigeration	105
VIII. Compressed Air Systems	114
IX. Lubricating Oil Purifiers	120
X. Auxiliary Machinery Outside the Engineering Spaces	127
XI. Instruments	148
XII. Fire-Fighting Equipment	168

PART III, NAVAL RECIPROCATING ENGINES

I. Function and Operation of the Slide Valve	3
II. Valve Gear and Reversing Arrangements	16
III. The Indicator Diagram	25
IV. Multiple-Expansion Engines	44
V. Cylinders and Pistons—Details and Attachments	59
VI. Crosshead, Connecting Rod, Crankshaft	76

PART IV, NAVAL TURBINES

I. Elementary Principles	3
II. Descriptive Classification	14
III. Details of Construction	42
IV. Turbine Accessories	76
V. Measurement and Adjustments	102
VI. Cruising Arrangements	118
VII. Auxiliary Turbines	122
VIII. Control Apparatus	131
IX. Lubrication	154
X. Condensing Systems	165