

ENGINEERS:

	PAGE.
Calculations of Stays,	190
Butt-Straps,	197
Joints,	197
Calculations on Safety-Valves,	207
Calculations in Pumps,	214
Eccentrics,	57, 186, 236
Engineers' Examination,	160
Fees,	331
Certificates of Service,	332
Examination days and Papers,	332-333
Elementary questions,	334
Examination and Qualifications for Certificates of Competency,	328-329
Liabilities of Engineers,	323

FLUES:

External Pressure on Flues,	48
Calculated,	49
Form and Construction,	279

GRATE SURFACE:

Ratio of Heating Surface to Grate Surface,	225
Heat,	11
Horse-power,	78, 50, 47, 226
Horse-power, Canadian Rule for	50
Horse-power of boilers,	177
Inaugural Address,	133
Indicator,	247
Inspection generally,	275
Inspection of Boilers and Machinery,	277

MARINE ENGINES:

Short History of Marine Engines and Presssure,	124
Mean Pressure,	44
Nominal Horse-power,	153
Calculations on Engines,	67
Horse-power of	47
Calculations on Condensers,	67
Proportion of Parts,	108
Useful knowledge on	114
Grate Surface,	114
Horse-power of Marine Engines,	153
What is Mechanics,	177
Nominal Horse-power,	47, 50, 78, 226

PRESSURE ON BOILERS:

Direct Loaded Safety-Valves on Boilers,	33, 38, 66
External on Flues,	48
Table of Pressures,	77-78
Flues,	48
What is Power,	58
Horse-power, Nominal	52