## PAPERS ON ENGINEERING SUBJECTS.

## No. 4. October 1922.

## CONTENTS.

			PAGE
	1.	Hydraulic and Pneumatic Power in Ships	3
	2.	Considerations affecting Design, Construction and Working of Large Steam Turbines	11
	3.	The Development of the Heavy Oil Engine for Naval Purposes	25
	4.	Failures of Details of Machinery and Boilers subjected to Steam Pressure	40
	5.	Erosion of Propellers	48
	6.	Torsional Oscillations of Marine Propeller Shafts	53
	7.	The Manufacture of Steel Tubes	60
	8.	Notes on Electric Welding	71
	9.	Running Experience with Oil Driven Electric Generating Machinery	90
1	0.	Repair of Submarine Engine Crank Shaft	98