CONTENTS

	Figures	11
	Preface	13
	Glossary	15
	Introduction	19
1	SHIPPING AND CIVILISATION	23
	The northern seas	28
2	MEDIEVAL WORLD-LINKS	32
	Northern expansion	33
	Mediterranean shipping	36
	Widening links, the Indian Ocean and China Sea	38
	Pacific Ocean	41
	New linkages	42
3	BRITISH SHIPPING AND ECONOMIC GROWTH	45
	The domestic coal trade	47
	Development of overseas trade	49
	The advance to steam and iron ships	52
4	WORLD SHIPPING ROUTES	58
	Physical factors	58
	International waterways	62
	Political and legal factors	64

5	TRENDS IN MODERN SHIPPING	69
	Demand for shipping	70
	Functions of shipping	73
	Fleet structure	74
	Ownership and growth trends	75
	Shipbuilding trends	76
	The importance of national shipping	78
	Shipping organisation and markets	81
	Costs in shipping	84
6	CONVENTIONAL DRY CARGO SHIPPING	90
	Tramp shipping	90
	The pattern of tramping	92
	Tramp earnings	95
	Tramp prospects	97
	Types of conventional liners	98
	Operating cargo liners	100
	Conferences	101
	Cargo liners: problems and prospects	103
	Operating passenger liners	105
7	OIL TANKERS	110
	Tanker owners	115
	Operating very large crude carriers	116
	Oil pollution and tankers	121
	Pipelines and tankers	122
	Patterns of oil trade	125
	Special tankers	128
8	BULK CARRIER AND UNITISED SHIPPING	131
	Dry cargo bulk carriers	131
	Types of bulk carriers	136
	Patterns of trade and freight rates	138
	Geographical impact of bulk carriers	143
	Unitisation	147
	Types of unitised vessels	148
	Economics of unit loads	151
	Ownership of unitised vessels	154
	Impact of unitisation	156

9	COASTAL AND SHORT SEA SHIPPING	159
	The role of coastal shipping	159
	Types of coastal ships	163
	Ownership of coastal fleets in Europe	165
	The role of short sea shipping	166
	Trends in short sea trade	167
	Trends in short sea shipping	171
	Comparison of the systems	174
	Future developments in short sea trade	176
10	SHIPPING AND THE DEVELOPING COUNTRIES	179
	Freight rates and exports	181
	Freight rates and imports	183
	The drive for national shipping	184
	Development of national fleets	186
	Comments on national fleets	190
	Types of coastal and short sea shipping in developing	
	areas	191
	The role of domestic shipping	193
	Pacific inter-insular trades	195
	Inter-insular shipping in south-east Asia	198

Index

205