

CONTENTS

		Page
FRICTION MATERIALS		
Chapter 1.	The U. S. Friction Materials Industry	3
Chapter 2.	Sintered Metal Brake Linings for Automotive Applications	9
Chapter 3.	A Contribution to the Investigation of Dry Friction of Sintered Steel	23
Chapter 4.	The Influence of Structure and Metal Additions on the Properties of Iron – Graphite Sintered Materials	37
Chapter 5.	Effect of Graphite Content on the Antifriction Properties of Metallographite Materials	53
Chapter 6.	The Influence of Silica and Alumina Additions to Sintered Iron – Based Friction Materials	61
Chapter 7.	Experience in Manufacturing Iron – Base Sintered Friction Alloys	73
Chapter 8.	Trends in the Development of Bearing and Friction	83
Chapter 9.	Iron – Based Sintered Antifriction Materials for Heavy Duty Service	105
Chapter 10.	Some Recent Advances in the Manufacture of the Friction Sintered Material Grade FMK-11	111
Chapter 11.	The Influence of Copper on the Properties of Sintered Iron – Graphite Friction Materials	123
Chapter 12.	New Sintered Friction Materials	139
Chapter 13.	Studies of Friction Materials	143
ANTIFRICTION MATERIALS		
Chapter 14.	The Bearing Performance of Sintered Metal Bearings	155
Chapter 15.	Porous Metal Bearings	187
Chapter 16.	Lubrication of a Porous Bearing – Stokes’ Solution	211
Chapter 17.	Lubrication of a Porous Bearing – Reynolds’ Solution	231
Chapter 18.	Selecting the Right Lubricant for Self – Lubricating Bearings and Parts	251
Chapter 19.	Sintered Bearings	263
Chapter 20.	Effect of Copper Addition on the Bearing Properties of Sintered Iron – Graphite	273
Chapter 21.	Effect of Sizing Allowance on the Surface Quality of Iron – Graphite Bushings	283
Chapter 22.	Production and Properties of a New Porous Bearing	291
Chapter 23.	A New Dry – Running Bearing Material	303
Chapter 24.	Cost Structure for Self - Lubricating Bearings	309
Chapter 25.	Metal Powder Industries Federation P/M Materials Standards and Specifications	313
	Index	333