

# CONTENTS

|                                                                               | PAGE |
|-------------------------------------------------------------------------------|------|
| Preface . . . . .                                                             | v    |
| Helium Liquefiers . . . . . <i>A. J. Croft</i>                                | 1    |
| Low Temperature Heat Exchangers . . . . . <i>A. G. Lenfestey</i>              | 23   |
| Novel Refrigeration Cycles and Devices . . . . . <i>W. E. Gifford</i>         | 49   |
| Cryogenic Rocket Propellants . . . . . <i>I. E. Smith</i>                     | 75   |
| Paramagnetic Substances for Nuclear Orientation . . . . . <i>R. P. Hudson</i> | 97   |
| Dynamic Nuclear Orientation . . . . . <i>C. D. Jeffries</i>                   | 129  |