

Contents

<i>Editor's Preface</i>	<i>vii</i>
<i>Symbols</i>	<i>ix</i>
1 Introduction	1
 Part 1 Absorption and Fluorescence of Glasses	
2 Electronic Spectra of Free Ions	21
3 Glass Structure	35
4 Ions in Glasses	55
5 Energy Transfer, Nonradiative Transitions and Quenching	85
6 Effects of Glass Composition	107
 Part 2 Laser Glasses	
7 Glass Bases	123
8 Emission of Glass Lasers	131
9 Preparation and Testing of Laser Glasses	149
 Part 3 Glass Lasers	
10 Design of Glass Lasers—The Cavity	157
11 Design of Glass Lasers—The Pump Unit	180
12 C.W. Generation of Stimulated Emission	188
13 Pulse Operation and Amplification	195
<i>Index</i>	207
<i>Recent Publications on Glass Lasers</i>	215