

Contents

Foreword by Prof DJ Pandey

vii

Preface

ix

Section I: Optics and Ophthalmic Lenses

- | | |
|------------------------------|----|
| 1. Elementary Optics | 3 |
| 2. Reflection and Refraction | 26 |
| 3. Ophthalmic Lenses | 38 |

Section II: Ocular and Refractive Anomalies

- | | |
|--|-----|
| 4. Optical System and Optical Defects of Human Eye | 61 |
| 5. Refractive Anomalies | 76 |
| 6. Binocular Vision and its Anomalies | 105 |
| 7. Accommodation and its Anomalies | 134 |
| 8. Convergence and its Anomalies | 163 |
| 9. Binocular Muscle Co-ordination Anomalies | 188 |

Section III: Vision and Refraction

- | | |
|---------------------------------|-----|
| 10. Visual Perception | 201 |
| 11. Retinoscope and Retinoscopy | 248 |

Section IV: Visual Rehabilitation

- | | |
|---|-----|
| 12. Spectacles, Spectacle Lenses and Spectacle Lens Fitting | 305 |
| 13. Contact Lens Optics, Design and Fitting | 362 |
| 14. Contact Lens Specific Conditions, Complications and Maintenance | 409 |
| 15. Refractive Surgery | 463 |
| 16. Low Vision | 521 |

Section V: Problem-based Learning

- | | |
|--|-----|
| 17. Problems Related to Refractive Errors and Presbyopia | 563 |
| 18. Problems Related to Refraction, Post-refractive Corrections and Low Vision | 582 |

Index

605