

# Contents

---

*Preface* • vii

1. Algebra • 1
2. Geometry • 17
3. Trigonometry • 31
4. Plane Analytic Geometry • 37
5. Space Analytic Geometry • 53
6. Elementary Functions • 65
7. Differential Calculus • 79
8. Infinite Series • 91
9. Integral Calculus • 103
10. Vector Analysis • 127
11. Functions of Complex Variables • 139
12. Fourier Series • 145
13. Higher Transcendent Functions • 153
14. Ordinary Differential Equations • 161

- 15.** Partial Differential Equations • 189
- 16.** Laplace Transforms • 195
- 17.** Numerical Methods • 203
- 18.** Probability • 215
- 19.** Statistics • 219
- 20.** Tables of Indefinite Integrals • 227
- Appendix A.* Numerical Tables • 295
- Appendix B.* Conversion Tables • 313
- Appendix C.* Glossary of Symbols • 317
- Appendix D.* References and Bibliography • 323
- Index* • 327