

Contents

Preface • ix

- 1. Numerical Calculations • 1**
- 2. Numerical Constants • 9**
- 3. Numerical Differences • 45**
- 4. Numerical Integrals • 67**
- 5. Series and Products of Constants • 85**
- 6. Algebraic and Transcendental Equations • 119**
- 7. Matrix Equations • 143**
- 8. Eigenvalue Equations • 157**
- 9. Series of Functions • 169**
- 10. Special Functions • 195**
- 11. Orthogonal Polynomials • 215**
- 12. Least-squares Approximations • 237**
- 13. Fourier Approximations • 249**
- 14. Laplace Transforms • 267**
- 15. Ordinary Differential Equations • 283**

16. Partial Differential Equations	• 237
<i>Appendix A. Numerical Tables</i>	• 359
<i>Appendix B. Glossary of Symbols</i>	• 387
<i>Appendix C. References and Bibliography</i>	• 395
<i>Index</i>	• 401