Contents

Preface	(ix)
Acknowledgements	(xiii)
About the Author	(xv)
List of symbols and notation	(xix)
1. Units, Dimensions and Standards	1
2. Magnetism, Electricity and Electromagnetism	39
3. Electrical Circuit Analysis	105
4. Visual Display and Analyses	171
5. Measuring Instruments	201
6. Extension of Instruments Range: Current and Potential Transformers	289
7. Measurement of Power	361
8. Measurement of Energy	419
9. Potentiometers	473
10. Measurement of Resistance	515
11. AC and DC Bridges and Bridge Methods	555
12. Magnetic Measurements	617
13. Measurement of Non-electrical Quantities	705
Appendices	807
References and Bibliography	869
Index	871