**5 Calibration methods: regression and correlation**

**Section 5A**

5.1 Introduction: instrumental analysis

5.2 Calibration graphs in instrumental analysis

5.3 The product–moment correlation coefficient

5.4 The line of regression of y on x

5.5 Errors in the slope and intercept of the regression line

5.6 Calculation of a concentration and its random error

**Section 5B**

5.7 Limits of detection

5.8 The method of standard additions

5.9 Use of regression lines for comparing analytical methods

5.10 Weighted regression lines

**Section 5C**

5.11 Intersection of two straight lines

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5.13 Curvilinear regression methods – Introduction

5.14 Curve fitting

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Bibliography

Exercises