

# Index for Workbook 47.3

NB: Entries refer to Physics Case Studies and not page numbers

|                        |                   |                                 |                     |
|------------------------|-------------------|---------------------------------|---------------------|
| Acceleration           | 11                | Maxima and minima               | 3, 8, 9, 10         |
| Black body radiation   | 1, 2, 3, 4        | Newton-Raphson method           | 2                   |
| Complex numbers        | 5, 6, 8, 9, 10    | Numerical integration           | 4                   |
| Coordinate systems     | 11                | Numerical solution of equations | 2                   |
| Differentiation        | 3, 11             | Optical waves                   | 5, 6, 7, 8, 9, 10   |
| Diffraction            | 8, 9, 10          | Planck's distribution law       | 1, 2, 3, 4          |
| Exponential function   | 1, 2, 3, 9        | Polar coordinates               | 11                  |
| Fourier transform      | 9                 | Refraction                      | 7                   |
| Fraunhofer diffraction | 8, 9, 10          | sinc function                   | 8, 9, 10            |
| Geometric series       | 5, 8, 9           | Slit                            | 8, 9, 10            |
| Integration            | 4                 | Thermodynamics                  | 1, 2, 3, 4          |
| Interference           | 6, 7              | Trigonometric functions         | 5, 6, 7, 8<br>9, 10 |
| Light                  | 5, 6, 7, 8, 9, 10 | Vectors                         | 11                  |
| Logarithm              | 1, 2, 3, 4        | Velocity                        | 11                  |
| Maclaurin series       | 10                |                                 |                     |