

Index for Workbook 18

Absolute error	31	Paraboloid	7
Approximation of functions	31	Partial derivative	10
Area of triangle	33, 39	Partial differentiation	9
Cartesian coordiantes	4	Percentage - relative error	31, 36
Circle	7, 39	Plane	4
Derivatives - first	9-14	Power	38
- partial	8-20	Pressure of gas	13
- second	15-	Redlich-Kwong equation	18
Errors - absolute	31	Relative error	31, 36
- percentage	31	Resistance	38
- relative	31	Saddlepoint	22, 26
Electric circuit	38	Stationary points	21-29
Function - 2 variables	4	Stationary points test	26
- 3 variables	3	Surface	5-7
- many variables	12	Variable - dependent	3, 9
Height of building	34	- independent	3, 9
Ideal gas law	13, 18	EXERCISES	
Local maximum	22, 26	14, 20, 29, 39	
Local minimum	22, 26	ENGINEERING EXAMPLES	
Maxima and minima	22, 26	1 The ideal gas law and Redlich-Kwong equation	18
Parabola	6	2 Measuring the height of a building	34
		3 Error in power to a load resistance	38