

Index for Workbook 13

Area under curve _____	13, 24-32	Radian _____	16
Calculator - radians _____	16	Reduction formulae _____	54-59
Constant of integration _____	3	Rules of integration _____	8, 9
Cos _____	4	Shear stress and strain _____	19
Cosh _____	10	Sine _____	4
Definite integrals _____	15	Sine integral _____	60
Elastic behaviour _____	19	Sinh _____	10
Electric field _____	11	Solenoid _____	51
Electrostatic charge _____	11	Sphere _____	11
Exponential function _____	4	Spring _____	18
Fourier analysis _____	52	Steel bar _____	19
Fresnel integrals _____	60	Stiffness _____	18
Hyperbolic functions _____	10	Strain _____	19
Indefinite integral _____	25	Stress _____	19
Infinite limits _____	19	Table of integrals _____	4
Integrand _____	3	Tan _____	4
Integration by parts _____	33-39	Torque _____	19
Integration by substitution _____	41-45	Torsion _____	19
Interchanging limits _____	17	Trigonometric functions _____	45-62
Limits of integration _____	15	Wallis' formula _____	57-58
Logarithm _____	4, 44	EXERCISES	
Magnetic flux _____	51	3, 7, 13, 18, 23, 28, 32, 36, 39, 42, 43,	
Orthogonality relations _____	50, 52-54	45, 47, 62	
Partial fractions _____	46	ENGINEERING EXAMPLES	
Plastic behaviour _____	19	1 Electrostatic charge _____	11
		2 Torsion of a mild-steel bar _____	19
		3 Magnetic flux _____	51