EDENCEL ANALYTICAL METHODS FOR ENGINEERS HI

UNIT 2 - NOF LEVEL 4

OUTCOME 3 - CALCULUS

TUTORIAL 2 — MAXIMA AND MINIMA

The calculus: the concept of the limit and continuity; definition of the derivative; derivatives of standard functions; notion of the derivative and rates of change; differentiation of functions using the product, quotient and function of a function rules;

integral calculus as the calculation of area and the inverse of differentiation; the indefinite integral and the constant of integration; standard integrals and the application of algebraic and trigonometric functions for their solution; the definite integral and area under curves

Further differentiation: second order and higher derivatives; logarithmic differentiation; differentiation of inverse trigonometric functions; differential coefficients of inverse hyperbolic functions

Further integration: integration by parts; integration by substitution; integration using partial fractions

Applications of the calculus: eg maxima and minima; points of inflexion; races of change of temperature; distance and time; electrical capacitance; rms values; electrical circuit analysis; ac theory; electromagnetic fields; velocity and acceleration problems; complex stress and strain; engineering structures; simple harmonic motion; centroids; volumes of solids of revolution; second moments of area; moments of inertia; rules of Pappus; radius of gyration; thermodynamic work and heat energy

Engineering problems: og stress and strain; torsion; motion; dynamic systems; oscillating systems; force systems; heat energy and thermodynamic systems; fluid flow; ac theory; electrical signals; information systems; transmission systems; electrical machines; electronics

This tutorial devoted to maxima and minima should be studied if you have not covered this work : previously.

You should judge your progress by completing the self-assessment exercises.

On completion of this tutorial you should be able to do the following.

- Define a maximum and minimum point of a function.
- Define a turning point.
- Define a point of Inflection.
- Use differential calculus to determine these points.
- Use differential calculus to determine if a point is a maximum or minimum.
- Solve practical problems by applying the theory.

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JL Elias

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