

EDExcel ANALYTICAL METHODS FOR ENGINEERS H1

UNIT 2 - NQF 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; rates 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: eg 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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Higher National Engineering Curriculum Support Pack Mike Tooley, Lloyd Dingle, 2012-09-10 Used alongside the students text Higher National Engineering 2nd edition this pack offers a complete suite of lecturer resource material and photocopiable handouts for the compulsory core units of the 2003 BTEC Higher Nationals in Engineering Full coverage is given of the common core units for HNC D units 1 3 for all pathways as well as the two different Engineering Principles units unit 5 for mechanical and electrical electronic engineering and the additional unit required at HND for these pathways Engineering Design unit 6 The authors provide all the resources needed by a busy lecturer as well as a bank of student centred practical work and revision material which will enable students to gain the skills knowledge and understanding they require This pack will save a course team many hours work preparing handouts and assignments and is freely photocopiable within the purchasing institution The pack includes Exercises to support and develop work in the accompanying student text Planned projects which will enable students to display a wide range of skills and use their own initiative Reference material for use as hand outs Background on running the new HNC HND courses Tutor s notes supporting activities in the students book and resource pack

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Table of Contents Analytical Methods For Engineers Edexcel Assignment

1. Understanding the eBook Analytical Methods For Engineers Edexcel Assignment
 - The Rise of Digital Reading Analytical Methods For Engineers Edexcel Assignment
 - Advantages of eBooks Over Traditional Books
2. Identifying Analytical Methods For Engineers Edexcel Assignment
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Analytical Methods For Engineers Edexcel Assignment
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analytical Methods For Engineers Edexcel Assignment
 - Personalized Recommendations

- Analytical Methods For Engineers Edexcel Assignment User Reviews and Ratings
- Analytical Methods For Engineers Edexcel Assignment and Bestseller Lists
- 5. Accessing Analytical Methods For Engineers Edexcel Assignment Free and Paid eBooks
 - Analytical Methods For Engineers Edexcel Assignment Public Domain eBooks
 - Analytical Methods For Engineers Edexcel Assignment eBook Subscription Services
 - Analytical Methods For Engineers Edexcel Assignment Budget-Friendly Options
- 6. Navigating Analytical Methods For Engineers Edexcel Assignment eBook Formats
 - ePub, PDF, MOBI, and More
 - Analytical Methods For Engineers Edexcel Assignment Compatibility with Devices
 - Analytical Methods For Engineers Edexcel Assignment Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Analytical Methods For Engineers Edexcel Assignment
 - Highlighting and Note-Taking Analytical Methods For Engineers Edexcel Assignment
 - Interactive Elements Analytical Methods For Engineers Edexcel Assignment
- 8. Staying Engaged with Analytical Methods For Engineers Edexcel Assignment
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Analytical Methods For Engineers Edexcel Assignment
- 9. Balancing eBooks and Physical Books Analytical Methods For Engineers Edexcel Assignment
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Analytical Methods For Engineers Edexcel Assignment
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Analytical Methods For Engineers Edexcel Assignment
 - Setting Reading Goals Analytical Methods For Engineers Edexcel Assignment
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Analytical Methods For Engineers Edexcel Assignment
 - Fact-Checking eBook Content of Analytical Methods For Engineers Edexcel Assignment

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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