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6.7 Applications of

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differential calculus
(EMCHH) Optimisation
problems (EMCHJ) We
have seen that
differential calculus
can be used to
determine the
stationary points of
functions, in order to
sketch their graphs.
Calculating stationary
points also lends itself
to the solving of
problems that require
some variable to be
maximised or
minimised.

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basic mathematical
ideas of fractional
calculus (integral and
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operations of
noninteger order) were
developed long ago by
the mathematicians
Leibniz (1695),
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Falling Motion 8.

Understanding

Derivative 9. Derivative

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Differentials

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generally taken in the first semester, with calculus 2 taken the next. Both classes deal with single-variable calculus,...

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Engineering Applications in Differential and Integral ...

Real life applications of
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calculus. Calculus is a part of mathematics and is also used in physics. With calculus, we can find how the changing conditions of a system affects us. You can learn how to control a system by studying calculus. Calculus is the language of engineers, scientists, and economists.

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out but the proposed models and algorithms are still in a ...

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