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Calculus - Civil Engineering Resources

What do Civil Engineers do? Its evident that all engineers use calculus as a basis to solving their engineering projects. This is one of many projects that engineers encounter that require calculus. Uses of Calculus in Civil Engineering

Calculus in Civil Engineering by Chris Butler

6.7 Applications of 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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will use calculus when observing different processes at a manufacturing corporation. By considering the value of different variables, they can help a company improve operating efficiency, increase production, and raise profits.

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Engineering Applications in Differential and Integral Calculus*
ALAN HORWITZ Mathematics Department, Delaware County
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Fractional Calculus (FC) goes back to the beginning of the theory of differential calculus. Nevertheless, the application of FC just emerged in the last two decades, due to the progress in the area of chaos that revealed subtle relationships with the FC concepts. In the field of dynamical systems theory some work has been carried out but the proposed models and algorithms are still in a ...

Some Applications of Fractional Calculus in Engineering

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