

Calculus Engineering Projects

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~~These student projects have been developed by the mathematics department of IUPUI for their introductory calculus sequence Integrated Calculus with Analytic Geometry I and II. Each project begins with a brief review of a topic that has been presented in lecture. The student is then guided through a Maple exploration of the topic.~~

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~~Bringing engineering themes, problems, and projects into the Calculus classroom. ... The visualization tools, interactive problems, and engineering examples have been extended to 18.03 Differential Equations and 18.06 Linear Algebra through use of the MITx platform on campus. Some highlights from Calculus and beyond can be found below.~~

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~~Calculus, at least the concepts developed from calculus, are used all the time in civil engineering. Any time there is a rate of change of something then the derivative is an efficient way to characterize it. Any time there is an area under some function describing behavior then the integral is an efficient way to quantify it.~~

~~What are the applications of calculus in civil engineering ...~~

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~~Engineering application of calculus and specifically integration in engineering. Use of integral calculus in engineering 1. The process of finding a function, given its derivative, is called integration or anti-differentiation. If F'(x) = f(x), we say F(x) is an anti- derivative of f(x). It is usually used to find the area .~~

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