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Calculus, at least the concepts

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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.

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## **What are the applications of calculus in civil engineering ...**

Many examples of the use of calculus are found in mechanical engineering, such as computing the surface area of complex objects to determine frictional forces, designing a pump according to flow rate and head, and calculating the power provided by a battery system.

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While is a straightforward exercise to

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evaluate this integral exactly using the First Fundamental Theorem of Calculus, in applied settings such as this one we will typically use computing technology to find accurate approximations of integrals that are of interest to us. Here, it turns out that

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is known. Work can also be calculated from integrating a force function, or when counteracting the force of gravity, as in a pumping problem.

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In Electrical Engineering, Calculus (Integration) is used to determine the

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exact length of power cable needed to connect two substations, which are miles away from each other. Space flight engineers frequently use calculus when planning for long missions.

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Calculus is deeply integrated in every

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branch of the physical sciences, such as physics and biology. It is found in computer science, statistics, and engineering; in economics, business, and medicine. Modern developments such as architecture, aviation, and other technologies all make use of what calculus can offer.

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## **APPLICATIONS OF CALCULUS**

Then I learned that studying calculus and mathematics (I studied, five courses of mathematics and four physical) allows you to prepare your attitude for the resolution of complex problems. In my view, it is a kind of prior training, as the athlete begins training with jogging or the singer performs exercises to prepare

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her voice.

## **EngineerGirl - How do you use calculus in your work?**

Fractional calculus is a branch of mathematical analysis that studies the several different possibilities of defining real number powers or complex number powers of the differentiation operator  $D$

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=  $(\cdot)$ , and of the integration operator  $J = \int (\cdot)$ , and developing a calculus for such operators generalizing the classical one.. In this context, the term powers refers to iterative application of a ...

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For solving those problems, the simple application of an established algorithm is

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especially physics.

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engineering is a special branch of mechanical engineering that deals with the optimization of processes and systems.

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