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## **Structural engineering - Wikipedia**

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online course in order to help educate those who interact with structural engineers on a daily basis. We hope that after learning the basics of what goes into our decision making, the lives of those we work with will be easier, with less stress, head-aches, and time/money wasted.

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## **Structural Engineering Basics**

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Structural engineering is a branch of civil engineering that involves the application of the laws of physics, mathematics and empirical knowledge to safely design the 'bones' and load bearing elements of man made structures. Modern day structural engineering provides a large

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and detailed body of knowledge that can accurately predict the performance of ...

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Structural engineering is the subfield of civil engineering concerned with the strength and stability of buildings, bridges, airplanes, vehicles and other



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structures. The structural engineer works with architects and designers to calculate the system of support and other requirements to ensure the structural integrity of the finished product.

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science and art of Structural Engineering.

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Education. The education of structural engineers is usually through a civil engineering bachelor's degree, and often a master's degree specializing in

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structural engineering. The fundamental core subjects for structural engineering are strength of materials or solid mechanics, Structural Analysis-Static & Dynamic, material science and numerical analysis.

## **Structural engineer - Wikipedia**

Hiring a residential structural engineer



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costs \$504 on average with a typical range between \$342 and \$711. Structural engineering plans cost \$800 to \$3,000 on average. They charge between \$100 and \$200 per hour. For new construction or large remodels, 1% to 20% of the total construction price, or \$1,500 to \$20,000, goes to the structural engineer.

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