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focuses on  
structures, the first

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engineering, also known as geotechnics, is the branch of civil engineering concerned with the engineering behavior of earth materials. It uses the principles and methods of soil mechanics and rock mechanics for

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engineering By  
problems and the  
design of  
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(Initially, it's worth

mentioning that

both fields are

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engineering is  
focused mainly on  
using a  
combination of  
knowledge plus  
methods in solving  
geoengineering  
problems, while  
geoenvironmental  
engineering goes a  
little further to

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include how to  
mitigate and  
assess natural  
hazards, the  
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contamination,  
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Another way,  
geotechnical  
engineering is a  
type of civil  
engineering that  
concerns itself with  
earth materials  
such as soil,  
groundwater and  
rock. The vast  
majority of civil  
construction  
projects deal with  
managing the

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ground and providing structural support, which makes geotechnical engineering a field that corresponds nicely with most civil engineering projects.

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engineering. From  
a scientific  
perspective,

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engineering largely involves defining the soil's strength and deformation properties. Clay, silt, sand, rock and snow are important materials in geotechnics. Geotechnical engineering includes specialist fields such as soil

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and rock  
mechanics,  
geophysics,  
hydrogeology and  
associated  
disciplines such as  
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overseeing work on  
a construction site.  
They often work for  
consultancies.

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Geotechnical engineering is a specialization within civil engineering that involves investigating and understanding

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what is beneath  
the ground's  
surface.

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engineers figure  
out the impact that  
geological  
formations may  
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engineering is the  
application of the  
sciences of soil  
mechanics and

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geology and other  
related disciplines  
to civil engineering  
construction, the  
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of laterally loaded  
long vertical and  
batter piles. As  
complete and  
authoritative as  
any volume on the  
subject, it  
discusses soil  
formation, index  
properties, and  
classification; soil  
permeability,  
seepage, and the  
effect of water on

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stress conditions; stresses due to surface loads; soil compressibility and consolidation; and shear strength characteristics of soils. While this book is a valuable teaching text for advanced students, it is one that the practicing engineer will continually be

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work features a  
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surrounding the  
behavior of earth  
materials is  
important to a  
number of  
industries,

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mining and construction industries. Further research into the field of geotechnical engineering can assist in providing the tools necessary to analyze the condition and properties of the earth. Technology



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devoted to solving  
practical problems  
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clearly fall into  
either the field of  
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methods to cope  
with them.

Progress would be  
even more

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particular  
reference to the  
design and  
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