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**ENGINEERING IN 5**

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in Chemical  
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to know before  
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engineering is a

branch of

engineering that

uses principles

of chemistry,

physics,

mathematics,

biology, and

economics to

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efficiently use,  
produce, design,  
transport and  
transform energy  
and materials.

The work of  
chemical  
engineers can  
range from the  
utilization of  
nanotechnology  
and  
nanomaterials in  
the laboratory

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to large-scale industrial processes that convert chemicals, raw materials, living cells, microorganisms, and energy into useful forms and products.

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engineering -

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developed a math

ematical-based,

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methodology, for  
the study of

chemical systems

using the

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of Clausius.

1882 - Hermann

von Helmholtz

showed that

measure of

chemical

affinity is

determined by

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the measure of  
the free energy  
of the reaction  
process.

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Transform

Argon is a  
chemical element  
with symbol Ar  
and atomic  
number 18. It is



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in group 18 of the periodic table and is a noble gas. Argon is the third most common gas in the Earth's atmosphere, at 0.934% (9,340 ppmv), making it over twice as abundant as the next most common atmospheric gas,

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water vapor

(which averages about 4000 ppmv, but varies greatly), and 23 times as abundant as the next most ...

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mathematics,  
energy and mass  
transfer,

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thermodynamics,  
fluid mechanics,  
separation  
technology,  
matter and  
energy balances,  
and other topics  
of engineering,  
plus they study  
chemical  
reaction  
kinetics,  
process design,  
and reactor

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design. A  
chemical  
engineer needs  
to be analytical  
and meticulous.

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engineering is  
all about

changing raw

materials into

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Engineering products

you use every  
day in a safe

and cost-  
effective way.

For example:

petrol, plastics

and synthetic

fibres such as

polyester and

nylon, all come

from oil.

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explains the  
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and operate

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processes that

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processes means  
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fundamental role

in governing the

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the speed and  
size of the

electron mean

that tracing its  
movement is

difficult using  
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methods such as  
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synthetic  
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knowledge of the

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driving force

for many

reactions

remains elusive.

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