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Eventually, you
will very
discover a new
experience and
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spending more

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cash.
nevertheless
when? do you
resign yourself
to that you
require to
acquire those
all needs later
than having
significantly
cash? Why don't
you try to
acquire
something basic

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in the
beginning?

That's something
that will lead
you to
understand even
more more or
less the globe,
experience, some
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1 LECTURE 1
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1.1 LECTURE

OUTLINE Welcome
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Congratulations
for having
covered
successfully the
first year
prerequisite
unit in Geology,
namely: "SGL
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of the Earth".

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In order for you to grasp fully the contents of the present lecture, you are particularly

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Atomic packing factor: A corner

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atom is shared
by eight unit
cells

Contribution of
a corner atom is
 $1/8$ Cube has 8
corners Hence
contribution of
8 corner atoms=
 $[1/8] \times 8 = 1$

Number of atoms
per unit cell= 1
If r is the
radius of the

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atom, distance
between the
centers of two
neighboring
atoms = $2r = a/2$
Volume of
one atom = $\frac{4}{3}\pi r^3$
Volume of
unit cell = a^3
atomic packing
factor = $\frac{\text{Volume of atoms in unit cell}}{\text{Volume of unit cell}} = \frac{4 \times \frac{4}{3}\pi r^3}{a^3} = \frac{\pi}{6}$
...

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provides the necessary bridge between the school education and engineering education which the students pursue from their second year of study. For successful completion of engineering diploma with

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Metallic Bond,
Hydrogen Bond,
Vander-Waal's
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is the
experimental

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science of determining the arrangement of atoms in crystalline solids (see crystal structure). The word "crystallography" is derived from the Greek words *crystallon* "cold drop, frozen

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drop", with its meaning extending to all solids with some degree of transparency, and graphein "to write". In July 2012, the United Nations recognised the importance of the ...

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Calculation of
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2.

Crystallography
and Crystal
Structures:
Space Lattice,
Unit Cell,
Lattice

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