

I'm not robot!

Magnetic field lines emanate from a magnetic north pole and terminate at a magnetic south pole. Hence, in a map depicting earth's magnetic field lines, the field lines at Melbourne, Australia would seem to come out of the ground.

(d) If a compass is located on the geomagnetic North Pole or South Pole, then the compass will be free to move in the horizontal plane while earth's field is exactly vertical to the magnetic poles. In such a case, the compass can point in any direction.

(e) Magnetic moment, $M = 8 \times 10^{22} \text{ J T}^{-1}$

Radius of earth, $r = 6.4 \times 10^6 \text{ m}$

Magnetic field strength, $B = \frac{\mu_0 M}{4\pi r^3}$

Where,

μ_0 = Permeability of free space = $4\pi \times 10^{-7} \text{ Tm A}^{-1}$

$\therefore B = \frac{4\pi \times 10^{-7} \times 8 \times 10^{22}}{4\pi \times (6.4 \times 10^6)^3} = 0.3 \text{ G}$

This quantity is of the order of magnitude of the observed field on earth.

(f) Yes, there are several local poles on earth's surface oriented in different directions. A magnetised mineral deposit is an example of a local N-S pole.

Question 5.2:

Answer the following questions:

The earth's magnetic field varies from point to point in space.

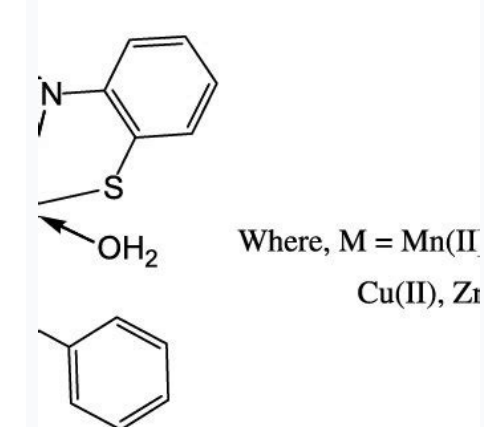
Does it also change with time? If so, on what time scale does it change appreciably?

The earth's core is known to contain iron. Yet geologists do not regard this as a source of the earth's magnetism. Why?

The charged currents in the outer conducting regions of the earth's core are thought to be responsible for earth's magnetism. What might be the 'battery' (i.e., the source of energy) to sustain these currents?

The earth may have even reversed the direction of its field several times during its history of 4 to 5 billion years. How can geologists know about the earth's field in such distant past?

n grams	Calculated
0.020	0.27388
0.022	
0.036	
0.038	
0.050	



Photochemistry of coordination compounds

Absorption band \leftrightarrow Electronic transition

The excited states are treated in the "localised MO approximation": the transition is considered to involve two predominant orbitals, the electron being promoted from OM_1 to OM_2 , ignoring more or less the other orbitals

What are the most important excited states, as far as electron transfer is concerned?

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