merading maia.

THE SULPHUR CYCLE reserves of sulphur on Earth's crust are deposits of sulphide and sulphates while reserved and sulphur it occurs in bodies of all living being. Plant and animal secretions and by bacterial action. Plants take up sulphur as sulphate D. by bacterial action. Plants take up sulphur as sulphates. Bacterial action may turn sulphates to hydrogen sulphide which is changed to sulphates again. A simplified sulphur resented in Fig 20.4. Sulphur in coal and petrology. Surprise of metals occur as sulphide or and a sulphur dioxide gas upon number of metals occur as sulphide or sulphate deposits which during their and processing operations give rise mostly to sulphur dioxide gas. Sulphur dioxide is and to corresponding acid which, finally, yields sulphates which are ultimately added to sulphate content of the environment. Some sulphur is also added to the soil or to aquatic as a result of volcanic activity.

There are two major factors contributed by human being, which disturb the natural sulphur Combustion of fossil fuels yields an enormous amount of sulphur dioxide worldwide. It is the injection of sulphur into the atmosphere, which has been causing great concern. A lot of sulphur is added to atmosphere as a result of mining and processing operations during extraction of metals. Volcanic emissions, which are the only known natural source of sulphur dioxide, have been estimated to contribute 2×10^9 to 5×10^9 kg of sulphur per year, while the annual amount of industrial sulphur injected into the atmosphere is thought to be about 83×10^9 kg. Sulphur dioxide is a serious local pollutant with a wide range of harmful effects. This gas is mainly responsible for causing acid rains. Rapid exploitation of sulphur deposits is another feature, which causes anxiety to us. These deposits are believed to have been produced by the activity of anaerobic bacteria (Baggiota sp) from hydrogen sulphide gas. We are consuming these deposits faster than they are formed naturally. A day might come when there will be no good deposits of sulphur left for human use.

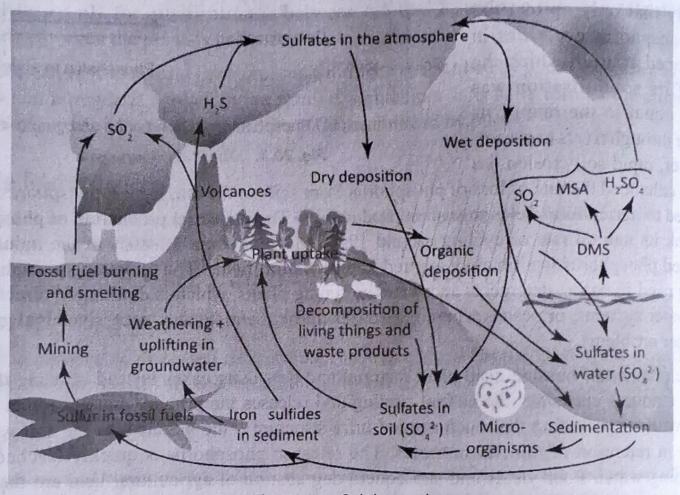


Fig. 20.4. Sulphur cycle.