

PMN7J004

AdvancedCoalMining

3-0-0

Module-I:

Extractionofthickseams:Problemsandissues,recentexperimentaltrialsChirimircaving Method,BlastingGalleryMethod,IntegralCavingmethod,Sublevelcavingmethod

Module-II:

Hydraulic Mining, Shield Mining; Extraction underneath surface features: Non-Effective width (NEW), Back filling methods, Wide stall mining.; Extraction of multiple seams:Problemsandissues,recentexperimentaltrials,Partingfailuresandcontrol,design ofworkings

Module-III:

Extraction of lockedup pillars: Status of Bord and pillar mining in India, techniques of extraction and future requirements

Module-IV:

Support systems:Strata behavior at greater depths, problems of strata control in high horizontal stress fields, design of support system