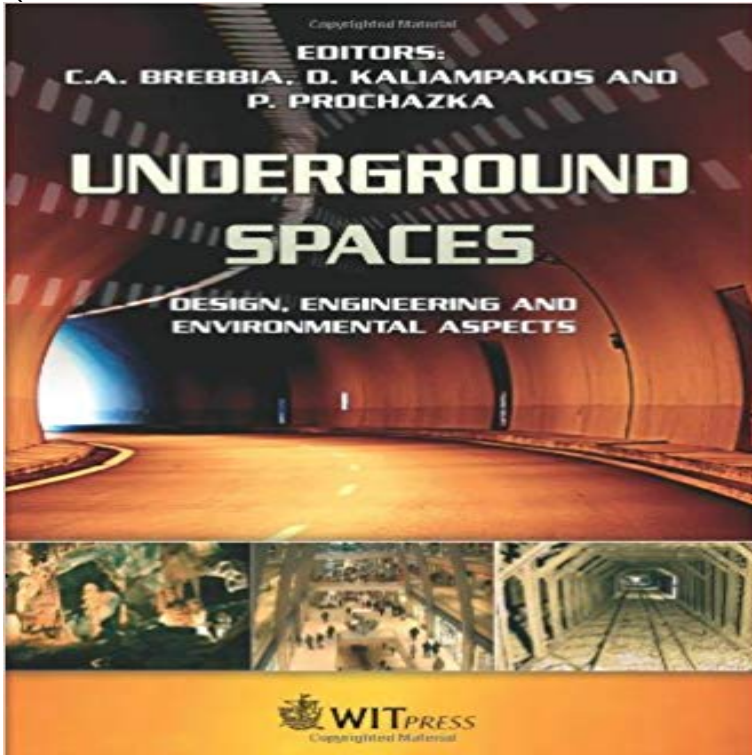


Underground Spaces : Design, Engineering and Environmental Aspects (Wit Transactions on the Built Environment)



It is a strongly held belief that population growth and the demand for better accommodation and leisure facilities, combined with a desire to improve the landscape, will result in the need to develop more underground spaces. This phenomenon, which started in countries subjected to extreme climates, is now becoming more widespread. Underground spaces are being utilized for a wide diversity of needs. They range from classical excavations to subway constructions; underground sports halls; power stations; waste repositories; underground cities, and many others. Their construction techniques are also varied, from open-air excavations to newly developed injection methods. The response of the underground structures on the imposed loadings depends on a number of parameters that sometimes are too complex or not fully understood, resulting in budget overruns or even failures that lead to loss of property or life. Such uncertain cases need to be addressed and engineers should be able to accurately predict the constructions performance throughout its construction and service life. The First International Conference on Underground Spaces discussed not only structural and environmental material characterization aspects but also the trends regarding the utilization of underground spaces. This book contains papers presented at the Meeting, and covers a wide range of topics including: Use of underground space for industry; Underground power stations; Toxic and nuclear waste repositories; Energy underground reservoirs; Underground sewerage plants; Waste storage and management; Road and railway tunnels; Utility tunnels; Fire defence; Defence against terrorist attacks.

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