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Back Analysis in Rock Engineering (ISRM Book Series)

Shunsuke Sakurai

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This book provides practising engineers working in the field of design and monitoring of rock structures such as tunnels and slopes with technical information on how to design and how to monitor the structures during their construction. Based on the long term engineering experiences of the author, field measurements together with back analyses are presented as the most powerful tools in rock engineering practice. The author has developed both "critical strain" and "anisotropic parameter" of rocks, which can make it possible to verify the validity of design parameters by the back analysis of field measurement results during the constructions. Based on the back analysis results, the design parameters used at a design stage could be modified if necessary. This procedure is called an "Observational method", a concept that is entirely different from that of other structures such as bridges and buildings.

It is noted that in general, technical books written for practising engineers mainly focus on empirical approaches which are based on engineers' experiences. In this book, however, no empirical approaches will be described, although its contents must be useful for practicing engineers working at construction sites. The contents of the book are all based on the theory of rock mechanics, and the back analysis procedure is also based on the theory of solid mechanics. This book will be the first to describe an observational method in rock engineering practice, which implies that the potential readers of this book must be practicing engineers working on rock engineering projects.

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