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this book covers the mechanical problems of tunnels in traffic hydraulic and mining engineering by extending the complex variable method in mechanical analysis it proposes accurate analytical solutions for tunnels the solutions are further applied to the back analysis of tunnels hole shape optimization support design and estimation of tunnel stability the considered rock characteristics involve elasticity elastoplasticity viscoelasticity and anisotropy and various geometric conditions are included such as circular noncircular single multiple tunnels with without support at deep shallow depths some original

achievements are provided including new mapping functions for complex regions precise determination of the noncircular plastic zone around single twin tunnels and related elastoplastic solutions and quantitative analysis of the interaction between rock and the support which are new developments of theory and method in rock mechanics the proposed analytical solutions are reliable tools to initially estimate the design parameters and achieve optimal design providing guidance in the conceptual stage of the design process they can clearly reveal the influences of parameters in functional form and provide a benchmark against which the overall correctness of numerical analyses can be assessed this book summarizes the author s research achievements over more than 20 years it is a valuable reference for professionals working in geotechnical engineering

selected peer reviewed papers from the 2013 2nd international conference on mechanics and control engineering icmce 2013 september 1 2 2013 beijing china

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autofrettage processes technology and modeling deals with the technology and modeling of autofrettage processes explaining the subject in a lucid manner it highlights how the theory of plasticity and finite element modeling are applied in the modeling of autofrettage processes aimed at senior students of mechanical production automobile and chemical engineering it has the potential to directly benefit practicing engineers and industrials owing to the inclusion of topics like thermal autofrettage key features provides a general introduction to autofrettage covers the application of theory of plasticity and finite element modeling of autofrettage processes offers exposure to newer autofrettage processes that to date have not been implemented in industries along with useful practical data

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