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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

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moving from basic to more advanced topics this popular core text has been revised and expanded to reflect recent advances while giving readers the tools needed to understand and work with random processes it places greater focus on thermodynamics especially the kinetics of phase transitions the chapter on bose einstein condensation has been revised to reflect improvements in the field the edition also covers stochastic processes in greater depth with a more detailed treatment of the langevin equation it provides new exercises and a complete solutions manual for qualifying instructors

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