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for sophomore level courses in modern physics this comprehensive text provides a clear correct and up to date introduction and survey of the topics of importance to tomorrow's engineers and scientists the presentation includes the description of the history of the topics to show students how we got to where we are it stresses the importance of observation and experiment and it emphasizes numbers so that students develop a feel for the magnitudes involved and for when different principles become important

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nikolai aleksandrovich bernstein was one of the great neuroscientists of the twentieth century and highly respected by western scientists even though most have never read his most important book entitled on the construction of movements bernstein's construction of movements the original text and commentaries is the first english translation it supplements the translated text with a series of commentaries by scientists who knew bernstein personally as well as leaders in related fields including physics motor control and biomechanics while written in 1947 bernstein's book is anything but obsolete making this english translation and accompanying commentaries an invaluable text the translated original text presents in detail bernstein's views on the evolutionary history of biological movement and his multi level hierarchical scheme of the construction of movements in higher animals including humans the following commentaries address bernstein's personality the history of the book and current views on different aspects of neuroscience covered in bernstein's text ultimately they present a book within the book to showcase how bernstein's heritage has developed over the past years this classic available for the first time to an english speaking audience will prove beneficial to students instructors and experts of neuroscience physics neurophysiology motor control motor rehabilitation biomechanics dynamical systems and related fields

modern cosmology begins with an introduction to the smooth homogeneous universe described by a friedman robertson walker metric including careful treatments of dark energy big bang nucleosynthesis recombination and dark matter from this starting point the reader is introduced to perturbations about an frw universe their evolution with the einstein boltzmann equations their generation by primordial inflation and their observational consequences these consequences include the anisotropy spectrum of the cosmic microwave background cmb featuring acoustic peaks and polarization the matter power spectrum with baryonic wiggles and their detection via photometric galaxy surveys redshift distortions cluster abundances and weak lensing the book concludes

with a long chapter on data analysis modern cosmology is the first book to explain in detail the structure of the acoustic peaks in the cmb the e b decomposition in polarization which may allow for detection of primordial gravity waves and the modern analysis techniques used on increasingly large cosmological data sets readers will gain the tools needed to work in cosmology and learn how modern observations are rapidly revolutionizing our picture of the universe provides foundations calculations and interpretations which illuminate current thinking in cosmology covers the major advances in cosmology over the past decade includes over 100 unique pedagogical figures

by reinterpreting the way that korean reformers confronted the process of modernization westernization between 1880 and 1910 this study challenges the failure thesis which maintains that subsequent japanese colonization is an indication that the early modernization process in korea was unsuccessful

jeremy bernstein guides readers through high energy physics from early twentieth century atomic models to leptons mesons quarks and the newly discovered higgs boson drawing them into the excitement of a universe where 80 percent of all matter has never been identified from molecules to galaxies the more we discover the less we seem to know

the only book to provide a unified view of the interplay between computational number theory and cryptography computational number theory and modern cryptography are two of the most important and fundamental research fields in information security in this book song y yang combines knowledge of these two critical fields providing a unified view of the relationships between computational number theory and cryptography the author takes an innovative approach presenting mathematical ideas first thereupon treating cryptography as an immediate application of the mathematical concepts the book also presents topics from number theory which are relevant for applications in public key cryptography as well as modern topics such as coding and lattice based cryptography for post quantum cryptography the author further covers the current research and applications for common cryptographic algorithms describing the mathematical problems behind these applications in a manner accessible to computer scientists and engineers makes mathematical problems accessible to computer scientists and engineers by showing their immediate application presents topics from number theory relevant for public key cryptography applications covers modern topics such as coding and lattice based cryptography for post quantum cryptography starts with the basics then goes into applications and areas of active research geared at a global audience classroom tested in north america europe and asia includes exercises in every chapter instructor resources available on the book s companion website computational number theory and modern cryptography is ideal for graduate and advanced undergraduate students in computer science communications engineering cryptography and mathematics computer scientists practicing cryptographers and other professionals involved in various security schemes will also find this book to be a helpful reference

this book addresses the central issues of cognitive science such as how the mind works and what enables us to have thoughts and feelings the author explains what cognitive science is describes its origins and outlines what it has achieved

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