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developed for the new international a level specification these new resources are specifically designed for international students with a strong focus on progression recognition and transferable skills allowing learning in a local context to a global standard recognised by universities worldwide and fully comparable to uk reformed gce a levels supports a modular approach in line with the specification appropriate international content puts learning in a real world context to a global standard making it engaging and relevant for all learners reviewed by a language specialist to ensure materials are written in a clear and accessible style the embedded transferable skills

needed for progression to higher education and employment are signposted so students understand what skills they are developing and therefore go on to use these skills more effectively in the future exam practice provides opportunities to assess understanding and progress so students can make the best progress they can

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karl pearson founder of modern statistics came to this field by way of passionate early studies of philosophy and cultural history as well as ether physics and graphical geometry his faith in science grew out of a deeply moral quest reflected also in his socialism and his efforts to find a new basis for relations between men and women this biography recounts pearson s extraordinary intellectual adventure and sheds new light on the inner life of science theodore porter s intensely personal portrait of pearson extends from religious crisis and sexual tensions to metaphysical and even mathematical anxieties pearson sought to reconcile reason with enthusiasm and to achieve the impersonal perspective of science without sacrificing complex individuality even as he longed to experience nature directly and intimately he identified science with renunciation and positivistic detachment porter finds a turning point in pearson s career where his humanistic interests gave way to statistical ones in his grammar of science 1892 in which he attempted to establish scientific method as the moral educational basis for a refashioned culture in this original and engaging book a leading historian of modern science investigates the interior experience of one man s scientific life while placing it in a rich tapestry of social political and intellectual movements

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approach to recent developments in physics engineering and technology in the second edition back cover

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core concepts of mechanics and thermodynamics is a textbook designed for students and anyone interested in these crucial areas of physics the book begins with the basics of mechanics covering motion forces and energy and then moves on to thermodynamics discussing heat temperature and the laws of thermodynamics the book emphasizes clear explanations and real world examples to illustrate concepts and it also provides problem solving techniques to apply what you learn it covers mechanics and thermodynamics from basic principles to advanced topics explains concepts clearly with examples teaches problem solving techniques connects theory to real world applications in engineering physics and materials science and includes historical context to show the development of these ideas core concepts of mechanics and thermodynamics is a valuable resource for students teachers and self learners whether you are beginning your journey or seeking to deepen your understanding this book provides a solid foundation in these essential subjects

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this book explores new findings on the long neglected topic of theory construction and discovery and challenges the orthodox current division of scientific development into discrete stages the stage of generation of new hypotheses the stage of collection of relevant data the stage of justification of possible theories and the final stage of selection from among equally confirmed theories the chapters written by leading researchers offer an interdisciplinary perspective on various aspects of the processes by which theories rationally should and descriptively are built they address issues such as the role of problem solving and heuristic reasoning in theory building how inferences and models shape the pursuit of scientific knowledge the relation between problem solving and scientific discovery the relative values of the syntactic semantic and pragmatic view of theories in understanding theory construction and the relation between ampliative inferences heuristic reasoning and models as a means for building new theories and knowledge through detailed arguments and examinations the volume collectively challenges the orthodox view's main tenets by characterizing the ways in which the different stages are logically temporally and psychologically intertwined as a group the chapters provide several attempts to answer long standing questions about the possibility of a unified conceptual framework for building theories and formulating hypotheses

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