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Stephen Pople one of today's most respected science authors has created a totally new physics book to prepare students for examinations. Complete Physics covers all syllabuses due to a unique combination of core pages and further topics. Each chapter contains core material valid for all syllabuses. Further topics at the end can be selected to provide the right mix of pages for the syllabus you are teaching. Key points totally new book constructed from an analysis of all GCSE Physics syllabuses including IGCSE, CXC and O Level sets the traditional principles of physics in a modern and global perspective and uses illustrations with a worldwide context. Extra topics to give a truly rounded curriculum. Double page spread format ideal for those students intending to take Physics to a more advanced level.

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the natural law of cycles assembles scientific work from different disciplines to show how research on angular momentum and rotational symmetry can be used to develop a law of energy cycles as a local and global influence angular momentum regulates small scale rotational cycles such as the swimming of fish in water the running of animals on land and the flight of birds in air also it regulates large scale rotation cycles such as global currents of wind and water james h bunn introduces concepts of symmetry balance and angular momentum showing how together they shape the mobile symmetries of animals chapter 1 studies the configurations of animals as they move in a head first direction chapter 2 shows how sea animals follow currents and tides generated by the rotational cycles of the earth in chapter 3 bunn explores the biomechanical pace of walking as a partial cycle of rotating limbs on a large scale angular momentum governs balanced shifts in plate tectonics chapter 4 begins with an examination of rotational wind patterns in terms of the counter balancing forces of angular momentum the author shows how these winds augment the flights of birds during migrations a final chapter centres on the conservation of energy as the most basic principle of science bunn argues that in the nineteenth century the unity of nature was seen in the emergent concept of energy not matter as the source of power including the movements of animals and machines in each chapter bunn features environmental writers who celebrate mobile symmetries this book will interest students naturalists and advocates of the environmental movement

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