Advanced Science And Technology Of Sintering

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Increasing interest in lightweight and high-performance materials is leading to significant research activity in the area of polymers and composites. One recent focus is to develop multifunctional materials that have more than one property tailored as to the specified design requirements, in addition to achieving low density. The possibility of simultaneously tailoring several desired properties is attractive but very challenging, and it requires significant advancement in the science and technology of high-performance functional polymers and composites. This volume presents a selection of new approaches in the field of composites and nanomaterials, polymer synthesis and applications, and materials and their properties. Some composites/nanocomposites and interfaces are explored as well, some with medical applications. The authors also look at simulations and modeling, synthesis involving photochemistry, self-assembled hydrogels, and sol-gel processing.

The purpose in writing this book is to give an historical overview of a new challenging field of research, and equip the readers with the mathematical basis of gravitoelectromagnetic theories and their applications to advanced science and technology. The first chapter introduces the historical background of electrogravity, especially on the Biefeld-Brown effect. The second chapter gives several explanations on the Biefeld-Brown effect and other related phenomena, with a concern on the Einstein's Unified Field Theory of Gravitation and electromagnetism and gravitational anomaly induced by the massive electrostatic charges of planets. The third chapter is concerned with the electrogravitic effect related to the zero point energy fluctuation in the vacuum, introduced from the standpoint of quantum electrodynamics. The fourth chapter discusses other electromagnetic gravity control devices including the Heim theory and their applications for space flight. The fifth chapter has shown that the Abraham force is the analogue of the Magnus force, and it thus represents the formation of vortex structures, of electromagnetic nature, in the physical vacuum: the electromagnetotoroid which can generate gravitational field. The sixth chapter deals with the plasma theory of the Universe and the role played by the gravito-electromagnetic forces generated by the plasma permeating the space between planets. And the last chapter shows the application on advanced aviation systems and future prospects of these technologies. This is a textbook written for both researchers and professional scientists, which provides the mathematical basis for readers to introduce the basic concept of gravitoelectromagnetic theories and also discusses their application to advanced science and technologies.

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For nearly a century, scientific advances have fueled progress in U.S. agriculture to enable American producers to deliver safe and abundant food domestically and provide a trade surplus in bulk and high-value agricultural commodities and foods. Today, the U.S. food and agricultural enterprise faces formidable challenges that will test its long-term sustainability, competitiveness, and resilience. On its current path, future productivity in the U.S. agricultural system is likely to come with trade-offs. The success of agriculture is tied to natural systems, and these systems are showing signs of stress, even more so with the change in climate. More than a third of the food produced is unconsumed, an unacceptable loss of food and nutrients at a time of heightened global food demand. Increased food animal production to meet greater demand will generate more greenhouse gas emissions and excess animal waste. The U.S. food supply is generally secure, but is not immune to the costly and deadly shocks of continuing outbreaks of food-borne illness or to the constant threat of pests and pathogens to crops, livestock, and poultry. U.S. farmers and producers are at the front lines and will need more tools to manage the pressures they face. Science Breakthroughs to Advance Food and Agricultural Research by 2030 identifies innovative, emerging scientific advances for making the U.S. food and agricultural system more efficient, resilient, and sustainable. This report explores the availability of relatively new scientific developments across all disciplines that could accelerate progress toward these goals. It identifies the most promising scientific breakthroughs that could have the greatest positive impact on food and agriculture, and that are possible to achieve in the next decade (by 2030).