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Since their debut in the late 1920s, particle accelerators have evolved into a backbone for the development of science and technology in modern society. Of about 30,000 accelerators at work in the world today, a majority is for applications in industry (about 20,000 systems worldwide). There are two major categories of industrial applications: materials processing and treatment, and materials analysis. Materials processing and treatment includes ion implantation (semi-conductor materials, metals, ceramics, etc.) and electron beam irradiation (sterilization of medical devices, food pasteurization, treatment of carcasses and tires, cross-linking of polymers, cutting and welding, curing of composites, etc.). Materials analysis covers ion beam analysis (IBA), non-destructive detection using photons and neutrons, as well as accelerator mass spectrometry (AMS). All the products that are processed, treated and inspected using beams from particle accelerators are estimated to have a collective value of US\$500 billion per annum worldwide. Accelerators are also applied for environment protection, such as purifying drinking water, treating waste water, disinfecting sewage sludge and removing pollutants from flue gases. Industrial accelerators continue to evolve, in terms of new applications, qualities and capabilities, and reduction of their costs. Breakthroughs are encountered whenever a new product is made, or an existing product becomes more cost effective. Their impact on our society continues to grow with the potential to address key issues in economics or the society of today. This volume contains fourteen articles, all authored by renowned scientists in their respective fields.

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It is one of the major challenges for materials scientists and mechanical engineers to cope with the demands for long lasting and reliable systems in all markets and for all applications. The loss of energy by friction and the limits of endurance by wear can be countered by well selected materials and surfaces. The economical and ecological significance of wear and friction is undisputed and can equate

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to between 1 and 4% of the gross national products of industrial countries. Although the basic understanding of the mechanisms of friction and wear has drastically increased during the last five decades, many technical solutions are still carried out "following trial and error." Selection of the best material and the optimal topography in combination with the desired physical and chemical properties requires a systematic approach and a deep understanding of the acting mechanisms. Thus friction, wear, and wear protection are interdisciplinary fields which bring together scientists from the engineering, natural, biological and medical sciences. This book is an indispensable source for everybody who needs to solve the problems of friction and wear on materials.

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