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Historical Studies in the Physical Sciences, Volume 7 Oswaal Books and Learning Private Limited

The first article in this volume, by Tetu Hirosige, is a definitive study of the genesis of Einstein's theory of relativity. Other articles treat topics—theoretical, experimental, philosophical, and institutional—in the history of physics and chemistry from the researches of Laplace and Lavoisier in the eighteenth century to those of Dirac and Jordan in the twentieth century. Contents: The Ether Problem, the Mechanistic World View, and the Origins of the Theory of Relativity (Tetu Hirosige); Kinstein's Early Scientific Collaboration (Lewis Pyenson); Max Planck's Philosophy of Nature and His Elaboration of the Special Theory of Relativity (Stanley Goldberg); The Concept of Particle Creation before and after Quantum Mechanics (Joan Brombery); Chemistry as a Branch of Physics: Laplace's Collaboration with Lavoisier (Henry Guerlac); Mayer's Concept of "Force": The "Axis" of a New Science of Physics (P. M. Heimann); Debates over the Theory of Solution: A Study of Dissent in Physical Chemistry in the English-Speaking World in the Late Nineteenth and Early Twentieth Centuries (R. G. A. Dolby); The Rise of Physics Laboratories in Britain (Romualdas Sviedrys); The Establishment of the Royal College of Chemistry: An Investigation of the Social Context of Early-Victorian Chemistry (Gerrylynn K. Roberts) Originally published in 1976. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

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Foundations of Mathematics and Physics One Century After Hilbert Apollo Books

The theory of the sick lobe states that breast carcinoma is a lobar disease developing most often within a single lobe, meaning that, at an early stage, breast carcinoma occupies a limited, anatomically well-defined portion of the breast. This theory unites observed patterns from the genetic, developmental and morphological perspectives, into an overall concept. Breast Cancer: A Lobar Disease, presents this hypothesis and its consequences. The body of evidence, pro and contra, generated in recent years will be presented in this volume. The chapters, all authored by leading experts in their respective areas, gather evidence from the perspectives of epidemiology, genetics, radiology, anatomy, developmental biology, morphology, endoscopy, ultrasound and therapeutics to give the reader a full picture of recent developments regarding the sick lobe hypothesis. Tibor Tot, MD PhD is Head of the Pathology and Clinical Cytology Department at the Central Hospital of Falun, in Sweden; breast cancer expert of the National Board of Health and Welfare in Sweden; and regular Course Director of the breast pathology program, the official educational program for Swedish residents in clinical pathology, oncology, radiology and surgery.

Japanese Journal of Applied Physics McGraw-Hill Companies

This book explores the rich and deep interplay between mathematics and physics one century after David Hilbert ' s works from 1891 to 1933, published by Springer in six volumes. The most prominent scientists in various domains of these disciplines contribute to this volume providing insight to their works, and analyzing the impact of the breakthrough and the perspectives of their own contributions. The result is a broad journey through the most recent developments in mathematical physics, such as string theory, quantum gravity, noncommutative geometry, twistor theory, Gauge and Quantum fields theories, just to mention a few. The reader, accompanied on this journey by some of the fathers of these theories, explores some far

reaching interfaces where mathematics and theoretical physics interact profoundly and gets a broad and deep understanding of subjects which are at the core of recent developments in mathematical physics. The journey is not confined to the present state of the art, but sheds light on future developments of the field, highlighting a list of open problems. Graduate students and researchers working in physics, mathematics and mathematical physics will find this journey extremely fascinating. All those who want to benefit from a comprehensive description of all the latest advances in mathematics and mathematical physics, will find this book very useful too.

The Fiber Bundle National Academies Press

This book offers an insight into the research and practices of science teaching and learning in the Singapore classroom, with particular attention paid to how they map on to science as inquiry. It provides a spectrum of Singapore ' s science educational practices through all levels of its education system, detailing both successes and shortcomings. The book features a collection of research and discourse by science educators in Singapore, organized around four themes that are essential components of approaching science as inquiry: teachers ' ideas and their practices, opportunities and constraints from a systemic level, students ' competencies and readiness to learn through inquiry and the need for greater awareness of the role of informal learning avenues in science education. In addition, the discourse within each theme is enriched by commentary from a leading international academic, which helps to consolidate ideas as well as position the issues within a wider theoretical and international context. Overall, the papers set out important contexts for readers to understand the current state of science education in Singapore. They also highlight strengths and gaps in practices of science as inquiry as well as provide suggestions about how the system can be improved. These research findings are therefore helpful as they provide honest and evidence-based feedback as well as tangible and doable ideas that policy makers, teachers, students and school administrators can adopt, adapt and enhance.

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Journal of Research of the National Bureau of Standards Springer

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National Science Board Princeton University Press

From the interior of the Sun, to the upper atmosphere and near-space environment of Earth, and outward to a region far beyond Pluto where the Sun's influence wanes, advances during the past decade in space physics and solar physics--the disciplines NASA refers to as heliophysics--have yielded spectacular insights into the phenomena that affect our home in space. Solar and Space Physics, from the National Research Council's (NRC's) Committee for a Decadal Strategy in Solar and Space Physics, is the second NRC decadal survey in heliophysics. Building on the research accomplishments realized during the past decade, the report presents a program of basic and applied research for the period 2013-2022 that will improve scientific understanding of the mechanisms that drive the Sun's activity and the fundamental physical processes underlying near-Earth plasma dynamics, determine the physical interactions of Earth's atmospheric layers in the context of the connected Sun-Earth system, and enhance greatly the capability to provide realistic and specific forecasts of Earth's space environment that will better serve the needs of society. Although the recommended program is directed primarily at NASA and the National Science Foundation for action, the report also recommends actions by other federal agencies, especially the parts of the National Oceanic and Atmospheric Administration charged with the day-to-day (operational) forecast of space weather. In addition to the recommendations included in this summary, related recommendations are presented in this report.

Patterns in Physics Oswaal Books and Learning Private Limited

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

A Lobar Disease

Reprint of the original, first published in 1864.

Inquiry into the Singapore Science Classroom

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