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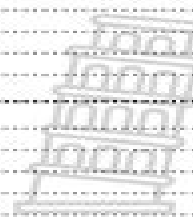
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The Invention of Physical Science M.J. Nye, J. Richards, R. Stuewer, 2012-12-06 Modern physical science is constituted by specialized scientific fields rooted in experimental laboratory work and in rational and mathematical representations Contemporary scientific explanation is rigorously differentiated from religious interpretation although to be sure scientists sometimes do the philosophical work of interpreting the metaphysics of space time and matter However it is rare that either theologians or philosophers convincingly claim that they are doing the scientific work of physical scientists and mathematicians The rigidity of these divisions and differentiations is relatively new Modern physical science was invented slowly and gradually through interactions of the aims and contents of mathematics theology and natural philosophy since the seventeenth century In essays ranging in focus from seventeenth century interpretations of heavenly comets to twentieth century explanations of tracks in bubble chambers ten historians of science demonstrate metaphysical and theological threads continuing to underpin the epistemology and practice of the physical sciences and mathematics even while they became disciplinary specialties during the last three centuries The volume is prefaced by tributes to Erwin N Hiebert whose teaching and scholarship have addressed and inspired attention to these issues

Computer Science Education in the 21st Century Tony Greening, 2012-12-06 The world is experiencing unprecedented rapidity of change originating from pervasive technological developments These developments are fundamentally reliant on the changing face of computing Computers are a near ubiquitous feature on the modern social landscape Such ubiquity enables rapid propagation of changes emerging from within computing as a family of disciplines What then is the relevance of such changes to education of future computer professionals and computer scientists This book considers the effects of such rapid change from within computing disciplines by allowing computing educationalists to deliver a considered verdict on the future of their discipline The targeted future the year 2020 was chosen to be distant enough to encourage authors to risk being visionary while being close enough to ensure some anchorage to reality The result is a scholarly set of contributions expressing the visions hopes concerns predictions and analyses of trends of the future of a discipline that continues to impact greatly on the wider community One of the interesting aspects of asking people to consider the future is the extent to which it ultimately sheds light on the present this concept is explored by the editor in his review of the contributions as a whole

Guide to Annual Subject Index

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