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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 38 pages. Original publisher: Germantown, Md. : U. S. Dept. of Energy, Office of Science, Office of Fusion Energy Sciences, 2007 OCLC Number: (OCLOC)741292369 Subject: Computer simulation -- Technological innovations. Excerpt: . . . mathematics, computer science, and high performance computers. While that ideal goal is still far away, simulation has already shortened the learning curve for developing more complete physics models that are closer to the first - principles equations. An example is the recent development of physics-based transport models that nicely reproduce the predictions of microturbulence simulations, without adjustable normalization parameters. The goal of FSP is to integrate the most complete physics models available, beginning with binary integration, and extending to higher dimensional integrations, providing a progressively more realistic simulation of an experiment. It should be aware that many physics models are still rapidly evolving, so the FSP should provide a framework for incorporating new physics as they evolve. Not all scientific areas are equally developed. By judiciously choosing its integration strategy working in concert with theory and experiment, the FSP should be able to produce answers in a timely way that cannot be obtained in its absence. There are many examples of smaller efforts aimed at integrating various pieces. There are several transport codes that integrate sources and transport. There have been some efforts aimed at combining MHD stability and transport. All of these efforts are characterized by (1) rapidly evolving physics understanding, necessitating constant evolution of the physics models, and (2) incompatibility (including both coding structure and physics components; i. e. , dimensionality, scales, etc.) of the different pieces requiring significant effort to join them. A lesson learned is that for the FSP to succeed, a partnership of...



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