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CHAPTER 1 — BASIC RADAR PRINCIPLES AND GENERAL ...

scientists and engineers learned how to use a single antenna for transmitting and receiving. Due to the prevailing political and military conditions at the time, the United States, Great Britain, Soviet Union, France, Italy, Germany and Japan all began experimenting with radar, with

varying degrees of success. During

Experimental considerations in electron beam transport on a ...

physics using optical forces, a more comprehensive treatment of the electron pulse evolution can be made using the longitudinal and transverse phase-spaces, where the alternation is represented in a complex but coherent and complementary 13,14 manner. FIG. 2. Relation between contrast and the peak laser field interacting with the photonic

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phenomena investigated today by scientists and engineers, and each approach requires the mathematical sciences. Currently observationalists are producing enormous data sets that can only be mined and patterns discerned by the use of deep statistical and visualization tools. Indeed, there is a need to fashion new tools and, at least initially, they will need to be fashioned ...

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material physics. 2. Codes should be transparent. That means that the writers should be aware, that the code is not prepared for those who make it, but for those who will use it. 3. New developments should be recognized as much as possible, but not at the cost of too complex theoretical formulations. 4. A code should be openminded, which means ...

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