



The Physics Of Laser Plasma Interactions (Frontiers in Physics)

By *William Kruer*

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Based on a graduate course in plasma physics taught at University of California, Davis, this classic book provides a concise overview and a physically-motivated treatment of the major plasma processes which determine the interaction of intense light waves with plasmas. It also includes a discussion of basic plasma concepts, plasma simulation using particle codes, and laser plasma experiments. This is the most elementary book currently available that successfully blends theory, simulation, and experiment, and presents a clear exposition of the major physical processes involved in laser-plasma interactions. This was also the first book on the topic by anyone involved in the United States Laser Fusion Program. Dr. Kruer has more than 30 years of active participation in this field.

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Editorial Review

Review

"A timely and important book on recent developments in the theory of the interaction of intense laser light with plasma." -- *Physics Today*

About the Author

William L. Kruer is the Chief Scientist for Plasma Physics in the Inertial Confinement Fusion Theory Division at the Lawrence Livermore National Laboratory. Dr. Kruer received his Ph.d. in Astrophysics from Princeton University in 1969. A Fellow of the American Physical Society and a recipient of its Maxwell Prize, he has published numerous articles on Plasma Theory and Simulation, Laser Plasma Interactions, and Inertial Confinement Fusion.

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