



# Unifying Physics of Accelerators, Lasers and Plasma

*Andrei Seryi*

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## Unifying Physics of Accelerators, Lasers and Plasma Andrei Seryi

Unifying Physics of Accelerators, Lasers and Plasma introduces the physics of accelerators, lasers and plasma in tandem with the industrial methodology of inventiveness, a technique that teaches that similar problems and solutions appear again and again in seemingly dissimilar disciplines. This unique approach builds bridges and enhances connections between the three aforementioned areas of physics that are essential for developing the next generation of accelerators.

Boasting more than 200 illustrations, this highly visual text:

- Employs TRIZ to amalgamate and link different areas of science
- Avoids heavy mathematics, using back-of-the-envelope calculations to convey key principles
- Includes end-of-chapter exercises focusing on physics and on applications of the inventiveness method

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Unifying Physics of Accelerators, Lasers and Plasma outlines a path from idea to practical implementation of scientific and technological innovation. The book is suitable for students at the senior undergraduate and graduate levels, as well as for senior scientists interested in enhancing their abilities to work successfully on the development of the next generation of facilities, devices and scientific instruments manufactured from the synergy of accelerators, lasers and plasma.

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