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J. van Bladel

Relativity and Engineering

1984. XII, 402 pp. 203 figs. (Springer Series in Electrophysics, Vol. 15) Hardcover DM 80,- ISBN 3-540-12561-2

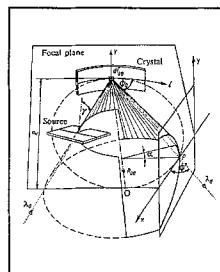
Contents: Kinematics in Inertial Axes. – Dynamics in Inertial Axes. – Vacuum Electrodynamics in Inertial Axes. – Fields in Media in Uniform Translation. – Boundary-Value Problems for Media in Uniform Translation. – Electromagnetic Forces and Energy. – Accelerated Systems of Reference-Gravitation. –

Maxwell's Equations in a Gravitational Field. – Electromagnetism of Accelerated Bodies. – Field Problems in a Gravitational Field. – Appendices A-D. – List of Symbols. – Some Useful Numerical Constants. – References. – Subject Index.

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A. Meisel, Karl-Marx-Universität, Leipzig; G. Leonhardt, TU Karl-Marx-Stadt; R. Szargan, Karl-Marx-Universität, Leipzig

X-Ray Spectra and Chemical Binding



1989. VIII, 458 pp. 230 figs.
(Springer Series in Chemical Physics, Volume 37) Hardcover DM 198,- ISBN 3-540-13325-9

This book focuses on the relation between X-ray spectra and the electronic structure of matter. Discussions of the physical processes are combined with interpretation of spectra from the perspective of chemistry to give a unified and rigorous presentation that

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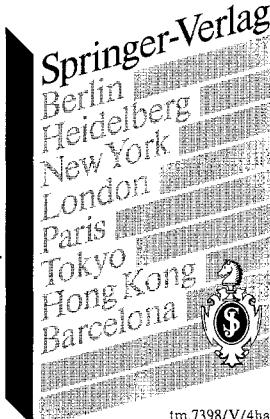
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