
Preface

This book is based on lectures given at the Ruhr-University of Bochum for graduate and postgraduates students starting their studies on plasma physics, but it is as well directed at established researchers who are newcomers to spectroscopy and need quick access to the diagnostics of plasmas ranging from low to high density technical systems at low temperatures as well from low to high density hot plasmas. Basic ideas and fundamental concepts are briefly introduced as is typical instrumentation from the X-ray to the infrared spectral regions. Examples, techniques, and methods illustrate the possibilities. The list of cited references is certainly not complete. Preference is given to either more recent publications since they usually refer to previous work or to reviews. I am grateful to Hans R. Griem and Andreas Dinklage for reading the manuscript and suggestions for improvement.

Bochum,
July 2009

Hans-Joachim Kunze

*There is no lift to success,
you have to climb the stairs.
Emil Oesch*

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