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Titolo	Spectroscopy of low temperature plasma [[electronic resource] /] / Vladimir N. Ochkin ; [translated by Sergey Kittell]
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ISBN	1-282-13990-8 9786612139901 3-527-62750-2 3-527-62751-0
Descrizione fisica	1 online resource (633 p.)
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Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Spectroscopy of Low Temperature Plasma; Contents; Preface; 1 Plasma as an Object of Spectroscopy; 2 Basic Concepts and Parameters Associated with the Emission, Absorption and Scattering of Light by Plasma; 3 Emission, Absorption and Scattering Techniques for Determining the Densities of Particles in Discrete Energy States; 4 Intensities in Spectra and Plasma Energy Distribution in the Internal and Translational Degrees of Freedom of Atoms and Molecules; 5 Measuring Concentrations of Atoms and Molecules; 6 Spectral Methods of Determining Electronic and Magnetic Fields in Plasma 7 Determination of the Parameters of the Electronic Component of Plasma8 Some Information on Spectroscopy Techniques; Appendix A Statistical Weights and Statistical Sums; Appendix B Conversion of Quantities Used to Describe Optical Transition Probabilities in Line Spectra; Appendix C Two-Photon Absorption Cross Sections for Some Atoms and Molecules in the Ground State; Appendix D Information on Some Diatomic Molecules for the Identification and Processing of Low-Temperature Plasma Spectra Appendix E Rotational Line Intensity Factors in the Electronic-Vibrational Transition Spectra of Diatomic MoleculesAppendix F

Measurement of the Absolute Populations of Excited Atoms by Classical Spectroscopy Techniques; Appendix G General Information for Plasma Spectroscopy Problems; Index

Sommario/riassunto

Written by a distinguished plasma scientist and experienced author, this up-to-date work comprehensively covers current methods and new developments and techniques, including non-equilibrium atomic and molecular plasma states, as well as such new applications as gas lasers. Containing numerous appendices with reference data indispensable for plasma spectroscopy, such as statistical weights and partition sums and diatomic molecules. For plasmaphysicists, spectroscopists, materials scientists and physical chemists. Appendix H is only available online.

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Autore

Kenway Jane

Titolo

Winning and managing research funding [[electronic resource] /] / Jane Kenway

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Descrizione fisica

1 online resource

Collana

The academic's support kit

Disciplina

001.44

Soggetti

Research grants
Proposal writing for grants

Lingua di pubblicazione

Inglese

Formato

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Nota di bibliografia

Includes bibliographical references (pages [120]-125) and index.

Nota di contenuto

Cover; Copyright; Contents; Acknowledgements; 1 - Who should use this book and why?; 2 - The Research Funding Pressure Cooker; 3 - Getting to Know the Funding Agencies; 4 - Getting the Basics in Place; 5 - Getting Down, Dirty and Detailed; 6 - Project Management; Index

Sommario/riassunto

The pressure to win funding to do research is felt by nearly all

academics worldwide. This book details strategies that you might adopt to get your research projects funded. It also explains how to manage your research projects once they are funded.
