

# Contents

<b>1</b>	<b>Optical Quantum Properties of GPS Signal Propagation Medium—D Layer . . . . .</b>	<b>1</b>
	Gennady V. Golubkov, M.G. Golubkov, M.I. Manzhelii, and I.V. Karpov	
<b>2</b>	<b>Prebreakdown Air Ionization in the Atmosphere . . . . .</b>	<b>69</b>
	N.V. Ardelyan, Vladimir L. Bychkov, I.V. Kochetov, and K.V. Kosmachevskii	
<b>3</b>	<b>Current Trends in the Development of Remote Methods of Detecting Radioactive and Highly Toxic Substances . . . . .</b>	<b>113</b>
	Shavkat Sh. Nabiev and Lyudmila A. Palkina	
<b>4</b>	<b>Ball Lightning: A New Step in Understanding . . . . .</b>	<b>201</b>
	Vladimir L. Bychkov and Anatoly I. Nikitin	
<b>5</b>	<b>Atmospheric Gelatinous Meteors . . . . .</b>	<b>369</b>
	Vladimir L. Bychkov	
	<b>Index . . . . .</b>	<b>385</b>

The Atmosphere and Ionosphere

Elementary Processes, Monitoring, and Ball Lightning

Bychkov, V.L.; Golubkov, G.V.; Nikitin, A.I. (Eds.)

2014, XVIII, 386 p. 136 illus., 70 illus. in color.,

Hardcover

ISBN: 978-3-319-05238-0