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Artificial Ball Lightnings (Paperback)

By V P Torchigin

Createspace, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.A survey of two century attempts to produce Ball Lightning in a laboratory with respect to understanding that Ball Lightning nature is optical one is presented. The Ball Lightning can be imagined as the soap bubble where the soap film is replaced by the film of strongly compressed air. The conventional white light is circulating in the film in all possible directions. The film shows itself as a planar wave guide the curvature of which is different from zero. The wave guide prevents the radiation of the light in free space. In turn, the light compresses the air due to the electrostriction pressure. This combination is closer to the light rather than to the lightning. We cut the tail in the world lightning and will call this combination by Ball Light. The energy of the light is essentially greater than that of the compressed air. In this case the behavior of the Ball Light is determined by the forces connected with the light rather than by the conventional forces connected with material particles. Said forces were considered in...



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