

**THE SHAPLEY FUNCTIONAL AND POLAR FORMS
OF HOMOGENEOUS POLYNOMIAL GAMES***V. A. Vasil'ev*

In the present article, we study the generalized Owen extension for infinite cooperative games of bounded polynomial variation. The study of this extension and the corresponding polar forms is carried out in the framework of the theory of semiordered K -spaces. The main result of the article consists in establishing interrelations between the Shapley functional and the polar forms of homogeneous games.

Key words and phrases: Owen's extension, nonatomic measure, cooperative game, Shapley value, polar form.

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