

XXIII IUPAP International Conference on Statistical Physics

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Invited Speakers

Plenary Speakers

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Invited Speakers

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O. Asses (Harinatian Nat, Unis, Carderos),
M. Barbasa (UPPOS, Penta Alegac, Beadl),
O. Barna (Data Indiant, Marthal, Bots),
A Sec (Naturaliza Nat, Unis, Carderos),
A Ray (Deb., of Manuheser, USI),
O. Brown (Deported Californ, London, UR),
H. Chatte, You Saddy, France),
D. Thoodhay (Indian Nat, Of Rechaulogy, Karpur, India),
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A. Bar (Burnan Resports) Fort, Bargoline, India),
E. Derman (Oscottin), France),
E. Domana (Naturane Posticite, Methovot, Bosell),

P. Di Francisco (Cris Sacling, Transis).

E. Domar (Michigene Fostitute, Relavoit, Road).

E. Diffract (Diss. Of Mathews, Germany).

D. Fammer (Santa Fe Hostitute, USA).

S. Franz (ECT), Frands, Esk),

A. Gemissis (MM fact Vieralliforichung, Sautgart, Derwary).

E. Hall (VM Bloghys, Chem., Gostringer, Germany),

H. Hillionst (Diss., of Farin sud. Quesy, Prance),

T. Wass (Diss. of California, San Diego, USA),

M. Kindar (WH, Boston, USA).

E. Konson (Diss.).

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J. Kuston (SSPC) Walls, France),

E. Lie Lief (or of Practe, Esk).

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J. Marchan (ESPCHPeris, France),

R. Lie Lilleris, of Peres, Parison),

K. Lie Lilleris, of Peres, Philadelpini, USA),

J. Lilleris, of Peres, Philadelpini, USA),

L. Marchanous Bharward Univ., Cambridge, USA),

M.-C. Migodi (Dain, De Barrestiner, Span),

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The Boltzmann Medal 2007 will be awarded at the Conference.

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Application of Statistical Physics Methods for the Construction of Mass Product Output Mathematical Model



V.P. Demutsky, V.D. Khodusov, and O.M. Pignasty. Abstract Book of the XXIII IUPAP International Conference on Statistical Physics, Genova, Italy, (9-13 July 2007)

Abstract

The main aim of this work is the development of mathematical model, which describes the dynamics of mass product output on the manufactures. This model gives an opportunity to find out the conditions for stable work of manufacture and the conditions for optimal operation. At present in the scientific literature describing mass product output are absent reasonably sufficient, valid and self-consistent mathematical models. These questions were considered only on the level of the problem formulation on the basis of particular and deficiency estimates. A theoretical foundation of constructing such models was absent. Methods of statistical physics let us build such base for economical problems of mass product output description. Under consideration of socioeconomic systems composed of a sum-total big number of individual elements, one can use well-developed kinetic theory methods of statistical physics. For the description of mass product output it is necessary to introduce the distribution function of base product, phase space in which it is defined, and write down Boltzmann kinetic equation in terms of economical parameters that it satisfies. It gives an opportunity to define macroscopic parameters and to solve for dynamic equations, which they satisfy. These equations act the determinative part in finding out the conditions of stable work of manufacture, its most optimal superintendence and other. Using widespread in statistical physics aggregation methods of microelements for big systems, equations of industrial and marketing systems balance are written. It is shown that in single-stage description, balance equations degenerate in well-known Forresters level equation of industrial and marketing systems. (less)

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