

# Generalized Solutions of Operator Equations and Extreme Elements #D.A. Klyushin, S.I. Lyashko, D.A. Nomirovskii, Yu.I. Petunin, Vladimir Semenov #202 pages #9781461406198 #2011 #Springer Science & Business Media, 2011

Generalized Solutions of Operator Equations and Extreme Elements (Springer Optimization and Its Applications Book 55) 1st Edition, Kindle Edition. by D.A. Klyushin(Author), S.I. Lyashko(Author), D.A. Nomirovskii(Author), Yu.I. Petunin(Author), Vladimir Semenov(Author) & 2 more Format: Kindle Edition. Part of: Springer Optimization and Its Applications (156 Books). Flip to backFlip to front. "Generalized Solutions of Operator Equations and Extreme Elements" presents recently obtained results in the study of the generalized solutions of operator equations and extreme elements in linear topological spaces. The presented results offer new methods of identifying these solutions and studying their properties.

Generalized Solutions of Operator Equations and Extreme Elements presents a general functional analytic approach to solving operator equations in a general form. This monograph presents recently obtained results in the study of the generalized solutions of operator equations and extreme elements in linear topological spaces. The results are clearly and thoroughly presented and offer new methods of identifying these solutions and studying their properties. These methods are based on a priori estimations and a general topological approach to construct generalized solutions of linear and nonlinear. In accordance with GENERALIZED SOLUTIONS OF OPERATOR EQUATIONS AND EXTREME ELEMENTS's editorial policy, review content is not publicly displayed on Publons. Interested in reviewing for this journal/conference? We can put registered members of Publons' reviewer community in touch with partnered journals they would like to review for. If you're on the editorial board of GENERALIZED SOLUTIONS OF OPERATOR EQUATIONS AND EXTREME ELEMENTS, you can add it in your profile settings. Endorsed by. No one has yet endorsed GENERALIZED SOLUTIONS OF OPERATOR EQUATIONS AND EXTREME ELEMENTS. Journal/Conference Endorsement. Endorse this journal/conference. 4.2 Generalized Solutions of an Infinite System of Linear Algebraic Equations. 4.3 Application to Volterra Integral Equation of the First Kind. 4.4 Application to the Statistics of Random Processes. the operator equation is closely related with the problem of introducing the "natural" notion of a generalized solution of the equation  $Lu = f$  for all  $f \in F$ ; in particular, when  $f \in F \setminus R(L)$ , and with the investigation of the properties of such generalized solutions. The point is that the description of a function set of  $R(L)$  is extremely difficult. of nonlinear operator equations -- 7. Generalized extreme elements -- Reference.-.

The abstract models for many problems in science and engineering take the form of an operator equation; the resolution of these problems often requires determining the existence and uniqueness of solutions to these equations. *Generalized Solutions of Operator Equations and Extreme Elements* presents a general functional analytic approach to solving operator equations in a general form. This unique and valuable monograph presents recently obtained results in the study of the generalized solutions of operator equations and extreme elements in linear topological spaces.