

14. VECTOR CALCULUS: DIFFERENTIALS OF VECTOR FUNCTIONS

Andrew Lohar

Vector Optimization with Infimum and Supremum

 Springer

Vector Optimization With Infimum And Supremum

Author Andreas Lhne Jul 2013

Andreas Löhne



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Vector Optimization with Infimum and Supremum Andreas Löhne, 2011-05-25 The theory of Vector Optimization is developed by a systematic usage of infimum and supremum In order to get existence and appropriate properties of the infimum the image space of the vector optimization problem is embedded into a larger space which is a subset of the power set in fact the space of self infimal sets Based on this idea we establish solution concepts existence and duality results and algorithms for the linear case The main advantage of this approach is the high degree of analogy to corresponding results of Scalar Optimization The concepts and results are used to explain and to improve practically relevant algorithms for linear vector optimization problems **A New Approach to Duality in Vector Optimization** Andreas Löhne, Christiane Tammer, 2005

Vector Optimization Johannes Jahn, 2013-06-05 In vector optimization one investigates optimal elements such as minimal strongly minimal properly minimal or weakly minimal elements of a nonempty subset of a partially ordered linear space The problem of determining at least one of these optimal elements if they exist at all is also called a vector optimization problem Problems of this type can be found not only in mathematics but also in engineering and economics Vector optimization problems arise for example in functional analysis the Hahn Banach theorem the lemma of Bishop Phelps Ekeland's variational principle multiobjective programming multi criteria decision making statistics Bayes solutions theory of tests minimal covariance matrices approximation theory location theory simultaneous approximation solution of boundary value problems and cooperative game theory cooperative n player differential games and as a special case optimal control problems In the last decade vector optimization has been extended to problems with set valued maps This new field of research called set optimization seems to have important applications to variational inequalities and optimization problems with multivalued data The roots of vector optimization go back to F Y Edgeworth 1881 and V Pareto 1896 who has already given the definition of the standard optimality concept in multiobjective optimization But in mathematics this branch of optimization has started with the legendary paper of H W Kuhn and A W Tucker 1951 Since about the end of the 60's research is intensively made in vector optimization *Vector Optimization* Johannes Jahn, 2011-03-30 **Solution Concepts in Vector Optimization** Frank Heyde, Andreas Löhne, 2008

A new approach to duality in vector optimization, 2005 **Recent Developments in Vector Optimization** Qamrul Hasan Ansari, Jen-Chih Yao, 2011-09-21 We always come across several decision making problems in our daily life Such problems are always conflicting in which many different view points should be satisfied In politics business industrial systems management science networks etc one often encounters such kind of problems The most important and difficult part in such problems is the conflict between various objectives and goals In these problems one has to find the minimum or maximum for several objective functions Such problems are called vector optimization problems VOP multi criteria optimization problems or multi objective optimization problems This volume deals with several different topics aspects of vector optimization theory ranging from the very

beginning to the most recent one It contains fourteen chapters written by different experts in the field of vector optimization

Vector Optimization and Monotone Operators via Convex Duality Sorin-Mihai Grad, 2016-08-23 This book investigates several duality approaches for vector optimization problems while also comparing them Special attention is paid to duality for linear vector optimization problems for which a vector dual that avoids the shortcomings of the classical ones is proposed Moreover the book addresses different efficiency concepts for vector optimization problems Among the problems that appear when the framework is generalized by considering set valued functions an increasing interest is generated by those involving monotone operators especially now that new methods for approaching them by means of convex analysis have been developed Following this path the book provides several results on different properties of sums of monotone operators

Vector Optimization Guang-ya Chen, Xuexiang Huang, Xiaogi Yang, 2005-07-13 This book is devoted to vector or multiple criteria approaches in optimization Topics covered include vector optimization vector variational inequalities vector variational principles vector minmax inequalities and vector equilibrium problems In particular problems with variable ordering relations and set valued mappings are treated The nonlinear scalarization method is extensively used throughout the book to deal with various vector related problems The results presented are original and should be interesting to researchers and graduates in applied mathematics and operations research Readers will benefit from new methods and ideas for handling multiple criteria decision problems

Theory and Methods of Vector Optimization (Volume Two) Yu. K. Mashunin, 2021-09-30 This second volume presents research in the field of the mathematical model operation of economic systems again using as a basis the theory and methods of vector optimization This volume includes three chapters The first chapter deals with issues related to the theory of the company modeling and decision making while the second deals with issues related to modeling and decision making in market systems The third chapter deals with issues related to modeling forecasting and decision making

Theory of Vector Optimization Dinh The Luc, 2012-11-30 These notes grew out of a series of lectures given by the author at the University of Budapest during 1985 1986 Additional results have been included which were obtained while the author was at the University of Erlangen Nürnberg under a grant of the Alexander von Humboldt Foundation Vector optimization has two main sources coming from economic equilibrium and welfare theories of Edgeworth 1881 and Pareto 1906 and from mathematical backgrounds of ordered spaces of Cantor 1897 and Hausdorff 1906 Later game theory of Borel 1921 and von Neumann 1926 and production theory of Koopmans 1951 have also contributed to this area However only in the fifties after the publication of Kuhn Tucker's paper 1951 on the necessary and sufficient conditions for efficiency and of Debreu's paper 1954 on valuation equilibrium and Pareto optimum has vector optimization been recognized as a mathematical discipline The stretching development of this field began later in the seventies and eighties Today there are a number of books on vector optimization Most of them are concerned with the methodology and the applications Few of them offer a systematic study of the theoretical aspects The aim of these notes is to

provide a unified background of vector optimization with the emphasis on nonconvex problems in infinite dimensional spaces ordered by convex cones The notes are arranged into six chapters The first chapter presents preliminary material Recent Developments in Vector Optimization Qamrul Hasan Ansari, Jen-Chih Yao, 2011-09-25 We always come across several decision making problems in our daily life Such problems are always conflicting in which many different view points should be satisfied In politics business industrial systems management science networks etc one often encounters such kind of problems The most important and difficult part in such problems is the conflict between various objectives and goals In these problems one has to find the minimum or maximum for several objective functions Such problems are called vector optimization problems VOP multi criteria optimization problems or multi objective optimization problems This volume deals with several different topics aspects of vector optimization theory ranging from the very beginning to the most recent one It contains fourteen chapters written by different experts in the field of vector optimization **A Vector Space Approach to Models and Optimization** C. Nelson Dorn, 1980

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