

# Calcul des variations

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volume contains some of the papers presented at the meeting, complemented by several papers of experts who were unable to attend. These 35 refereed articles report on recent and original results in various areas of operator theory and connected fields, many of them strongly related to contributions of Szőkefalvi-Nagy. The scientific part of the book is preceded by fifty pages of biographical material, including several photos.

### ***Calcul des variations***

Sergiu AIZICOVICI, Nicolae H. PAVEL, (Editors). — **Differential equations and control theory.** — Lecture notes in pure and applied mathematics, vol. 225. — Un vol. broché, 18×26, de VIII, 328 p. — ISBN 0-8247-0681-1. — Prix: US\$150.00. — Marcel Dekker, New York, 2002.

Based on papers presented at the International Workshop on Differential Equations and Optimal Control held recently at Ohio University, Athens, this current reference contains new applied, deterministic, stochastic, and theoretical methods. *Differential Equations and Control Theory* details nonlinear programming and control with closed range operators... numerical approximation of the Riccati equation... Wentzell boundary conditions... impulse control for stochastic Navier-Stokes equations... current discoveries on the Lavrentiev phenomenon... least action for  $N$ -body problems... and more.

Jean-Baptiste HIRIART-URRUTY, Claude LEMARÉCHAL. — **Fundamentals of convex analysis.** — Grundlehren text editions. — Un vol. broché, 16×24, de x, 259 p. — ISBN 3-540-42205-6. — Prix: € 44.95. — Springer, Berlin, 2001.

This book is an abridged version of the two volumes *Convex Analysis and Minimization Algorithms I and II* (Grundlehren der mathematischen Wissenschaften Vol. 305 and 306), which presented an introduction to the basic concepts in convex analysis and a study of convex minimization problems. The “backbone” of both volumes was extracted, some material deleted that was deemed too advanced for an introduction, or too closely related to numerical algorithms. Some exercises were included and finally the index has been considerably enriched. The main motivation of the authors was to “light the entrance” of the monument Convex Analysis.

### ***Géométrie***

Audun HOLME. — **Geometry: our cultural heritage.** — Un vol. relié, 16×24, de XVI, 378 p. — ISBN 3-540-41949-7. — Prix: € 34.95. — Springer, Berlin, 2002.

This book contains selected topics from the history of geometry, with “modern proofs” of some of the results, as well as a fully modern treatment of selected basic issues in geometry. The book aims at future teachers of mathematics. All too often the geometry which goes into the syllabus for teacher-students presents the material as pedantic and formalistic, suppressing its dynamic character and its role as part of the foundation for our common cultural heritage. The motivation for the book is to open up these aspects of the field. Another motivation is to provide an invitation to mathematics in general. Thus the book also aims at an informed public interested in making a new beginning in mathematics.

### ***Géométrie différentielle***

Scot ADAMS. — **Dynamics on Lorentz manifolds.** — Un vol. relié, 17 × 23, de XIII, 402 p. — ISBN 981-02-4382-0. — Prix: £29.00. — World Scientific, Singapore, 2001.

Within the general framework of the dynamics of “large” groups on geometric spaces, the focus is on the types of groups that can act in complicated ways on Lorentz manifolds, and on