

M I S C E L L A N E A

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- Contributors to the volume XXIII
- LIBERTAS MATHEMATICA (publication policy, subscription, exchanges)
- Contents of volume XXIII

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FROM THE BOOKSHELVES

C. CORDUNEANU: *Functional Equations with Causal Operators*. Taylor and Francis, London and New York, 2002 (XI + 168 pp.).

The causal operators, also known as non-anticipative or abstract Volterra operators, encompass a good deal of classical operators (ordinary differential, delay, integrodifferential with Volterra type operators, a.o.). The volume aims at presenting a unified approach, and illustrates such basic problems as existence, existence in the large (global), uniqueness for initial value problems (classical and with functional data), stability theory, linear and quasilinear equations, neutral equations and miscellaneous applications and generalizations. Problems related to admissibility theory, two point boundary value problems, asymptotic behavior and control of linear-quadratic type are also presented. An Appendix is dedicated to the existence of almost periodic solutions, this time the causality of operators involved being dropped. The list of references contains almost 200 items. The volume is based on graduate courses the author has taught at the University of Texas – Arlington.

RADU D. RUGESCU, (Ed.): *Aerospace International Symposium "Carafoli 2001"*. Bren Publishers, Bucharest, 2001

This volume (278 pp.) contains a collection of research papers presented at the Aerospace International Symposium "CARAFOLI 2001". The Symposium marked the Centennial of the Carafoli's Birthday, and 30 years of existence of the Faculty of Aerospace Engineering with the University "Politehnica" of Bucharest. An introductory paper, authored by the Editor Dr. Radu D. Rugescu, provides some insight on the life and activity of Elie Carafoli (1901–1983), a well known specialist in Aerodynamics, and a former professor at the University "Politehnica" of Bucharest.

The volume contains 35 contributions to the Aerospace Sciences, in greatest part signed by former students of Carafoli: Dan Mateescu (McGill University, Montreal), Adriana Nastase (RWTH, Aachen), Ion Paraschivoiu (Montreal Polytechnic) and many from Romania (Corneliu Berbente, Horia Dumitrescu, Al. Dumitrache, Valentin Cardos a. o.). Among the contributors one finds many authors from most European countries, Canada and US.

The volume represents a respectful tribute paid to the memory of Elie Carafoli – a former President of the International Society of Astronautics (Paris).

E. AIT DADS, O. ARINO, H. BOUSLOUS, R. BRAVO de la PARA, M. L. HBID, (Eds.): *Actes du 2-eme Workshop sur les problemes lies a l'etude des ressources aquatiques* (Marrakech, 2–7 Mai 2000).

This volume contains some of the contributions presented at the Workshop, in total about 30 papers or abstracts, as well as some introductory articles. The participants were mainly from Morocco and France, and the majority of papers are written in French. A few participants were from Spain. The main directions followed by the participants have been in modelling, the control, the physical effects and oceanographic phenomena. The Workshop has been held under the auspices of the University "Cadi Ayyad" from Marrakech, under sponsorship of Centre International Systemes Dynamiques.

CHARLES ASHBACHER: *Introduction to Neutrosophic Logic*. American Research Press, Rehoboth, 2002, 143 pp.

The neutrosophic logic has been introduced recently by Florentin Smarandache (Neutrosophy. Neutrosophic Probability, Set and Logic, same publisher, 1998). The author of the present book offers to the readers an introduction, based on the recent advances in this field. The Contents: Ch.1, Classical Logic; Ch.2, Three-valued Logic; Ch.3, Fuzzy Logic; Ch.4, Neutrosophic Logic. Summarily, the definition of Neutrosophic Logic is: an extension / combination of the fuzzy logic, intuitionistic logic, paraconsistent logic, and the three-valued logics that use an indeterminate value. In neutrosophic logic, every logical variable is described by an ordered triple: $x = (t, i, f)$, where t is the degree of truth, f is the degree of false and i is the level of indeterminacy.

IOAN I. VRABIE: *C_0 -Semigroups and Applications*. North-Holland Mathematics Studies **191**, North-Holland Elsevier, Amsterdam Boston 2003, xii+373 pages.

The monograph under review is concerned with a systematic presentation of one of the most interesting parts of Operator Theory, i.e. C_0 -Semigroups.

After an introduction to vector-valued function spaces, unbounded operators and functional calculus, the author focuses his attention on semigroups of linear operators, generation theorems as those of: Hille-Phillips, Feller-Miyadera-Phillips, Lumer-Phillips and Stone. Several examples of differential operators generating C_0 -semigroups are discussed. It should be mentioned here: the Laplace operator with either Dirichlet, or Neumann boundary conditions, the Maxwell, the Directional Derivative, the Schrödinger, the Wave, the Airy as well as the operators arising in Linear Thermoelasticity and Viscoelasticity. After presenting some approximation techniques including Chernoff and Lie-Trotter formulae, the author includes some basic results on special classes of semigroups: equicontinuous, differentiable, compact and analytic, and analyzes some important examples. Next, the nonhomogeneous Cauchy problem and a class of evolution equations with measures as data are considered. Some basic facts on ordinary differential equations and semilinear evolution equations in infinite-dimensional Banach spaces are proved and several existence results for some classes of either hyperbolic, or parabolic partial differential equations are derived. A special interest is paid to the study of semilinear equations involving measures. In Appendix some compactness results in basis function spaces are proved.

The book is self-contained and clearly written. It is of interest for graduate students and researchers in Mathematics, Physics and Engineering.

Elena POPOVICIU, (Ed.): *Séminaire de la Théorie de la Meilleure Approximation, Convexité et Optimization*. SRIMA Publishers, Cluj-Napoca, 2002 (184 pp.).

This volume, edited by Professor Emeritus Elena Popoviciu from the "Babeş-Bolyai" University of Cluj-Napoca, with the assistance of Mircea Ivan, Ştefan Tigan, Liana Lupşa, Ioan Raşa, Radu Precup and Gheorghe Halic, contains 14 contributions and a Preface (written by the editor). All the papers inserted in the volume, including two from foreign authors, have been presented at the 2002 Meeting of the *Itinerant Seminar "Tiberiu Popoviciu"*, held in Cluj-Napoca. The 2002 Meeting was the 42-nd since the inception of the Itinerant Seminar, and it was held at various institutions of higher education from Cluj-Napoca, Iaşi, Timişoara, Suceava a.o. The contributing authors are: Mira Anisiu and Valeriu Anisiu; Brigitte Breckner and Wolfgang Ruppert; C. Corduneanu and Yizeng Li; Gabriela Cristescu and Liana Lupşa; Gheorghe Halic and Eduard Halic; Mircea Ivan and Ioan Raşa; Daniela Marian; Adrian Petruşel and Ghiocel Moţ; Nicolae Popovici; Elena Popoviciu; Radu Precup; Christian Săcărea; Nicolae Todor; Ştefan Tigan and I.M. Stancu-Minasian. The volume addresses readers interested in Numerical Analysis, Approximation Theory, Convexity, Optimization and other related topics.

R.T. TRÎMBIŢAŞ (Ed.): *Numerical Analysis and Approximation Theory* (Proceedings of an International Symposium, dedicated to the 75-th Birthday of Prof. D.D. Stancu). Cluj University Press, 2002 (476 pp.).

This volume displays 35 contributions to Numerical Analysis and Approximation Theory, mostly due to some of Prof. Stancu's 40 Ph.D. students. The final paper is authored by Prof. D.D. Stancu and is entitled "Methods for construction of linear positive operators of approximation". Several papers are authored by mathematicians from Serbia or Czech Republic. The introductory part of the volume contains a brief presentation of Prof. Stancu's life, the list of Ph.D. students who have written their theses under Prof. Stancu's guidance, a list of papers published by various authors who made conspicuous reference to the work of prof. Stancu. There is also an attempt to portray Prof. Stancu by using mathematical tools (matrices, sets, spaces, etc.).

Prof. D.D. Stancu has been associated with the University of Cluj-Napoca, his Alma Mater. He became a full professor in 1968. His Ph.D. degree has been earned in 1956, under the guidance of the late Tiberiu Popoviciu – the initiator of Numerical Analysis research in Romania. The University "Lucian Blaga" of Sibiu has awarded to Prof. Stancu the "Doctor Honoris Causa" degree in 1995. In 1999, the Romanian Academy has elected him as a Honorary Member.

MATHEMATICAL RECREATIONS: a Journal of mathematics for teachers and pupils, T. Bîrsan Editor in Chief. Edited in Iasi, since July 1999, in Romanian, with support from SSMR - Romanian Society of Mathematical Sciences.

Starting with the second semester of 1999, a journal for pupils and teachers is edited in Iași, under the title *Recreații Matematice (Mathematical Recreations)*. It appears twice a year, and each issue has about 90 pages. The title of this journal was explicitly inspired by that of *Scientific Recreations* – a journal which was published in Iași *between 1883 – 1888*, at a frequency of twelve issues per year. The editors of *R.M.* expect for a much longer life for this journal, in spite of certain difficulties with its editing. The main aim established by the editors (professors / teachers of Mathematics in universities and highschoools) consists in awakening and stimulating pupils' interest for the study of mathematics at any level : primary school (1st - 4th years), gymnasium (5th - 8th years) and highschool (9th - 12th years). At the same time, this journal gives the opportunity to professors of mathematics (from Iasi and the whole country) to publish original papers. Besides the section of *Proposed Problems* (5 problems for each of the 12 years of school studies), subjects for the admission contests to the highschoools and universities, subjects proposed to various school contests (olympiads) in mathematics, as well as more peculiar problems addressed to pupils training for olympiads are published. A section of *History of Mathematics* is included in each issue. Complementary problems to school manuals and issues on the methodology (in teaching school mathematics) have been published in *R.M.*, too. Another section entitled *Pupil's Note* also exists, as well as a section that gives solutions to the problems proposed in earlier issues. The readers giving the most interesting solutions are awarded by a diploma and books of mathematics from *R.M.* Editorial Board. So far, eight issues of this journal were published. The ninth issue is under preparation. *R.M.* is distributed in several Romanian cities and towns, and the interest in this journal appears to be increasing. Any correspondence regarding this journal should be sent to the Editor-in-Chief at the following address: Department of Mathematics, "Gh. Asachi" Technical University of Iasi, Carol I Blvd. 11, IASI-6, Romania.

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LIBERTAS MATHEMATICA

is a publication of the American Romanian Academy of Arts and Sciences. It is published annually, as a volume of approximately 200 - 250 pages. Contributions to Libertas Mathematica are requested by the Editor, or they must be submitted by an ARA member. Any paper submitted by an ARA member, if not accompanied by his/her report, will undergo a peer reviewing process. Correspondence related to Libertas Mathematica should be addressed to the Editor:

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Subscription Agencies and Booksellers receive a 20% discount from the institutional price.

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Libertas Mathematica is currently exchanged for mathematical publications. Exchange proposals must be submitted to the Editor.

This volume is published with the assistance of Professor Adrian Corduneanu, Professor Alexandru Cărbăușu and Assistant Professor Mircea Lupan from the Department of Mathematics at the "Gh. Asachi" Technical University in Iasi.

Manuscript intended for publication in Libertas Mathematica should be sent to the editor (hard copy only!) at the above shown address. When accepted, a diskette with the paper is required (preferable in \LaTeX).