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JOHN CARSTOIU ON HIS 80-th ANNIVERSARY

John Carstoiu (Ion Carstoiu) was born in the city of Craiova,the capital of the Southern Romanian province of Oltenia,on August 10 , 1911.He graduated from the secondary school (Lyceum) "Carol I" from his native city - one of the most prestigious learning institutions of those times.

John Carstoiu went to the University of Bucharest to continue his education and received his Bachelor of Science degree in Mathematics from that university in 1935.While studying Mathematics in Bucharest,John Carstoiu became acquainted with some of the most famous Romanian mathematicians,teaching at that time at the University of Bucharest,such as Gheorghe Tzitzeica and Dimitrie Pompeiu.

In 1935,John Carstoiu went to Paris (France) to continue the studies,and in 1939 he obtained the degree of "Ingenieur Civil de l'Aeronautique" from the "Ecole Nationale Superieure de l'Aeronautique".In 1948 he received the Doctor of Science degree in Mathematics from the University of Paris,defending the thesis "Recherches sur la Theorie des Tourbillons".

Renouncing to return to Romania where the communist regime has been already installed,John Carstoiu immigrated to the United States of America in 1949,and became a U.S. citizen on November 5,1954.

During the academic year 1948-1949,John Carstoiu worked with the French National Center of Scientific Research in Paris,as a Research Attache.

In 1949 he joined the faculty,as an Assistant Professor,at Johns Hopkins University in Baltimore,MD.Simultaneously,he was a Staff Member in the Department of Aeronautical Engineering of that school.From 1953 to 1954 John Carstoiu was a Research Associate with the Graduate Institute for Applied Mathematics at Indiana University.During the academic year 1954-1955,he was a Professor of Mathematics and Director of the Program for Pre-Engineering at Tougaloo Southern Christian College.

In 1955 John Carstoiu starts his activities in industry,and from 1955 to 1957 he was with Republic Aviation Corporation,working on the subject of optimal trajectories of jet aircratfts and missiles.From 1957 to 1959,John Carstoiu eas employed by Texas Instruments,Inc.,where he

was concerned with passive detection of a fast-moving object.Next place in industry for John Carstoiu was at Lockheed's Missile and Space Division,where he worked on the NIDAR effect and C-layer.During this period, he was also a special lecturer at Columbia University,the Department of Electrical Engineering (1956).

In 1959 John Carstoiu joined Sylvania,where he was in charge with research work in Magneto-Fluid Dynamics.His main concern was with ASW problem , shock-wave propagation in the presence of a magnetic field,and radio and magnetohydrodynamic wave interaction.

In 1961,in cooperation with several outstanding scientists from the U.S. and abroad,John Carstoiu founded the Interantional Consultant Scientists Corporation and conducted further research activities in magnetohydrodynamics ,plasma physics,dynamics and electrodynamics of severe storms, gravity waves,biomagnetohydrodynamics,and other subjects.During the Summer of 1966,he taught and Advanced Electrodynamics course at Northeastern University in Boston.In 1969 John Carstoiu was a Visiting Scientist at State University of New York at Albany,and in 1971 he was a Research Associate at the University of Paris,France.

Dr.Carstoiu has given many invited papers at several universities in the U.S. and abroad.During his career,Dr. Carstoiu has made significant contributions in Mathematics,Fluid Dynamics,Aerodynamics,Geophysics and Magneto-Fluid Mechanics and has published over eighty papers in journals of international standards.He has also authored NASA Technical Note D-1689 (December 1962),entitled:"Magnetohydrodinamic waves in a constant dipole magnetic field".In addition,memoirs have been published in the following books:"Relativistic Fluid Mechnaics and Magnetohydrodynamics" (Academic Press,New York,1963);"Planetary Electrodynamics" (Gordon and Breach,New York,1969).

In 1965,John Carstoiu has received the "Prix des Laboratoires" of the French Academy of Sciences,for his work on Magnetohydrodynamics.

Let us mention that John Carstoiu was among the first Romanian mathematicians who understood the dangers of the communist regime and has chosen the LIBERTAS (not only MATHEMATICA!) at an early stage of his life.

(C.Corduneanu)

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In Memoriam

DUMITRU ION MANGERON : 1906 - 1991

Dumitru Ion Mangeron has passed away in Iaşi,on February 26,1991 (in a hospital where he spent several months of his life,mostly after the death of his spouse,Maria Mangeron).

Since 1941,when he was appointed a Professor of Mechanics at the Iaşi Polytechnic Institute,Dumitru Ion Mangeron has been continuously associated with that institution.In 1945,during the difficult period that followed the WW II,Mangeron was the founder of the "Buletinul Institutului Politehnic 'Gh.Asachi' din Iaşi" - a publication with wide circulation in the scientific community (over 500 exchange agreements).He had an impressive number of Ph.D. students among the young mathematicians in Iaşi and other academic centers of Romania.In 1990,Mangeron has been elected a Correspondent Member of the Romanian Academy.

Dumitru Ion Mangeron was born in Chişinău,also known as Kishinev,at the time the capital of the province Bessarabia of the Tsarist Empire.This province,known nowadays as the Republic of Moldova,was part of the Principality of Moldavia - one of the three historic provinces of Romania (the others being Wallachia and Transylvania),until 1812.Then,it has been annexed by the Russian Empire.This fact may explain why Mangeron,whose name has French origin,was the most achieved polyglot among the intellectuals of Iaşi.Besides Romanian,Russian and French,Mangeron was fluent in English,German,Italian,Ukrainian,Polish and other languages.Indeed,after the annexation of the province of Bessarabia,the Tsarist Empire has brought colonists from several European countries. In Chişinău,Mangeron attended the secondary school,and graduated with strong interest in Mathematics.His teacher of Mathematics in Chişinău, I.K.Parno,has exerted a powerful influence on the young Mangeron.

In 1926 Dumitru Ion Mangeron became a student at the University of Iaşi, the Faculty of Sciences,the Department (Seminarul) of Mathematics.At the time,the leader of the mathematical community in Iaşi was Alexandru Myller,a former student of Felix Klein,David Hilbert and Hermann Minkowski at the University of Goettingen in Germany (1907-1909).Myller's wife Prof. Vera Myller-Lebedev,was a former student of David Hilbert.

Other professors at the Mathematics Division of the University of Iasi at that time (S.Sanielevici,C.Popovici) were former students of the French Scool of Mathematics.The atmosphere was very congenial for studies in Mathematics,and Mangeron had a very good start of his career in Mathematics.After he graduated from the University of Iaşi in 1930, Mangeron became a student of the University of Naples in Italy,where he worked under Mauro Picone for his degree in Mathematics.In 1932,Mangeron defended his thesis whose title was "Sopra un probl4ma al contorno per un'equazione differenziale ale derivate parziali di quart'ordine, con le caratteristiche reali doppie".From Picone and his collaborators, who at the time were involved in solving mathematical problems generated in the applied sciences (let us recall the fact that Picone has founded the Istituto Nazionale per le Applicazioni del Calcolo),Mangeron has learnt the art of investigating various applied problems by means of mathematical methods.His thesis contains the study of a fourth order boundary value problem,in a nonelliptic case,and the ideas he developed in the thesis have attracted attention from the part of very distin - guished mathematicians such as M.Salvadori,G.Birkhoff,W.J.Gordon,and recently from the part of A.Sadowski (1990).

After his return to Romania,where he served first as an Assistant with the Seminarul Matematic,he devoted a good deal of his efforts to endow the library of Mathematics with the necessary books and periodicals.He is promoted to an Associate Professor of Mathematical Analysis in 1936, and in 1938 he occupies the same position at the Polytechnic School in Iaşi,known since 1948 as the Institutul Politehnic "Gh.Asachi" din Iaşi. Three years later,in 1941,Mangeron is appointed a Professor of Mechanics at the Iaşi Polytechnic.For the next half century,until his death early this year,he remained fully attached to this institution and its progress.He has taught a large number of courses in Applied Mathematics or Mechanics,and served for many years as chairman of various departments (as the changes in the structure of the institution have requested).

His devotion for teaching and his art of presenting mathematical subjects made of him one of the most revereed scholars within the Poly - technic of Iaşi.He has also contributed in training specialists (mainly in Mechanics and its related fields) for many young institutions of higher learning from Romania.

Dumitru Ion Mangeron authored an impressive number of papers.He has con-

tributed to several fields in Mathematics and Applied Mathematics,and we shall mention here the areas of Partial Differential Equations,Integrodifferential Equations,Optimization Theory,Analytical Mechanics, Nonlinear Oscillations,Theory of Mechanisms and Machines,History of Mathematics.Among his contributions to the Theory of Partial Differential Equations there is a generalization of the celebrated Picone's formula,a generalization of Euler-Lagrange operators,Green's functions of "higher order", and other topics.Together with L.E.Krivoshein,he has developed approximating methods for the solutions of various boundary-value problems,especially for higher order equations.Together with N. Irimiciuc,also from the Iaşi Polytechnic,Mangeron has published a three-volume treatise entitled "Solid Mechanics with Applications in Engineering".His results in the Theory of Mechanisms and Machines have been widely used by specialists in the field:I.I.Artobolewski,J.Beggs,V.V.Topenčarov,I.S.Zilberman and by many others.He has been interested in the History of Mathematics for a long period of time,and he published many interesting papers in this area.The knowledge of several contemporary languages has contributed substantially in this regard.In 1947,the Romanian "Gazeta Matematica" has awarded him the Prize for History of Mathematics.

He has been a member of several prestigious professional societies in Romania and abroad,sometimes being elected as a honorary member.He was a member of more than 25 societies from England,France,USA,USSR,Japan, Italy.Mangeron was an associate editor or editor for many journals in the field of Mechanics or related to this field.

During his career as a Professor of Mathematics or Mechanics,Mangeron has participated in many conferences,congresses and symposia,all around the world.He has been a Visiting Professor and lectured in many universities from Canada,USA,France,Brazil.

Dumitru Ion Mangeron has contributed largely to the consolidation of the prestige of the Iaşi Polytechnic,an institution of higher learning which he joyned from its foundation (1938).

(This article has been compiled by C.Corduneanu, using a text written recently by Gheorghe Bantaş and Vladimir Şciurevici).

A.R.A. P U B L I C A T I O N S

Romania and the Romanians by Octavian Barlea
Los Angeles , 1977 $ 6.00

Clash over Romania by Paul D.Quinlan
Los Angeles , 1977 $ 7.00

The Tragic Plight of a Border Area:Bassarabia and Bucovina, (Editor) Maria Manoliu-Manea
Humboldt , 1984 (out of print)

Istoria Romanilor de la Origini pana in Zilele Noastre by Vlad Georgescu
2nd ed.,Davis,California,1989 $ 30.00

Romanian Artists in the West by Ionel Jianu (ed.)
Paris,1987 $ 35.00

The United States and Romania:American-Romanian Relations during the Twentieth Century by Paul D.Quinlan (ed.)
Woodland Hills,CA , 1988 $ 17.00

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Davis,California , 1988 $ 17.00

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ALEXANDRU CLIMESCU: 1910 - 1990

On June 7 , 1990 , Alexandru Climescu passed away in Iaşi, at the age of eighty.Since 1945,his career was closely related to the Polytechnic Institute "Gh.Asachi" from Iaşi,where he taught Mathematics and headed the Department of Mathematics for a long period.The closest relative surviving him is a niece,whom he helped during her years in college,and thereafter.

Climescu was born in the Moldavian city of Bacău on May 11 , 1910, in a family with solid intellectual traditions.From 1921 until 1928,he was a high school student in Iaşi,and after graduation went on to study Mathematics and Law at the University of Iaşi.In 1933 he obtained his degree in Mathematics (Licenţa), and shortly thereafter in Law.During the academic year 1933-1934 he was a student of the Superior Normal School attached to the university,in order to get his teaching licence.

On November 1 , 1934 , Climescu is appointed an Assistant with the Chair of Complex Variables,and remains on that position until 1938.He worked with Professor Vera Myller-Lebedev - the holder of that chair and a former student of David Hilbert in Göettingen.As a result of his association with the chair of Complex Variables,Climescu has written his Ph.D. thesis which he defended in 1940:"Families of Analytic Functions Preserving the Half-planes Determined by the Real Axis".From 1938 until 1945,his poşition at the university was that of an Assistant Professor,associated with the Chair of Algebra.But during this period he was most of the time in the army,and his mathematical activity was only occasional.He is promoted to a Professorship in 1945,becoming the holder of the Chair of Mathematical Analysis at the Polytechnic Institute of Iaşi.He remained on that position until 1977,when he decided to retire from active duties.Simultaneosly with his work in the Poly - technic Institute in Iaşi,Climescu has taught for many years (1946-1967) Algebra courses at the University of Iaşi.

As head of the Department of Mathematics of the Polytechnic Institute,Climescu was a member of the Senate of that institution,and held many other positions.A great deal of activity was related to the publication of the Polytechnic Institute , "Buletinul", in which work he closely cooperated with Dumitru Mangeron (see his obituary in this volume) For short periods of time,Climescu held part time positions with the

Mathematical Institute of the Romanian Academy,the Branch of Iaşi, where he headed the research work in Algebra.

The research work of Alexandru Climescu has embrassed the fields of Classical Analysis,Complex Analysis,Functional Equations,Algebra and Applied Mathematics.He is the author of more than 70 papers,most of them being published in "Buletinul Institutului Polytehnic 'Gh. Asachi' din Iaşi".He participated in various international conferences dedicated to mathematical subjects,and presented some of the results he has obatined in France,Soviet Union,Poland,Hungary and other countries.

In his Ph.D. thesis (1),he has introduced an operation H in the class of analytic functions (in honor of Hurwitz and Hadamard),by means of which the class of meromorphic functions is characterized.

Climescu has introduced several concepts in Modern Algebra,such as index of nonassociativity (6),weak rings (24),the index of a Boole algebra (42),complete sum in a semigroup (44).He presented an axiomatic theory of determinants (15).He introduced an arithmetic invariant for the multiplicative systems of finite order (6).In the papers (24) and (32) he is developing the theory of weak rings,conceived as algebraic structures in whic the distributivity is replaced by another relation.He gave a unifying definition for the algebras with unitary operations (23).

In his work (47) Climescu found periodic solutions to a class of nonlinear integral equations.In a series of papers , (35) - (39), (45),he is concerned with general solutions of the functional equation of the one-sided distributivity.In (49) Climescu is constructing a variant of the Propositionsl Calculus,taking into account multivalued mappings.

Many results obtained by Climescu.and particularly those in Algebra,attracted the attention of research mathematicians in Romania or abroad.Some of his results have been quoted by the authors of mathematical papers or monographs:J.L.Robinson,E,P,Klement,Ph. Hogate, Tudora Luchian and many others.

(Adrian Corduneanu)

In the following list of publications,**BPI** will stand for "Buletinul Institutului Polytehnic "Gh.Asachi" din Iaşi",where most of Climescu's papers have been published.

List of Publications of Alexandru Climescu

1. Sur la classe des fonctions analytiques qui gardent les demi-plans déterminés par l'axe réel. Annales Sci. Univ. Jassy, XXVIII (1942), no. 1-2, 31-138 (Climescu's Ph.D. thesis)
2. Sur les quasicicles. BPI I (1946), 1-10
3. Sur l'équation fonctionnelle de l'associativite. BPI I (1946), no. 2, 221-224
4. Sur les espaces à topologie transitive d'ordre n. BPI I (1946), no. 2, 259-269
5. Sur la définition du logarithme dans le domain réel. BPI II (1947), no. 1, 81-88
6. Etude sur la théorie des systèmes multiplicatifs uniformes, I. BPI II (1947), no. 2, 347-371.
7. Sur une matrice attachée à toute suite de nombres. BPI III (1948), no. 1, 141-152
8. L'interversion des derivées partielles mixtes du second ordre. BPI III (1948), no. 2, 526-531
9. Sur une développement analogue à la série de Lambert. BPI III (1948), no. 2, 790-795
10. Esquisse de la théorie d'un algorithme associatif. Annales Sci. Univ. Jassy, XXXI (1948), 127-149
11. O contribuţie la teoria sistemelor de ecuaţii diferentiale lineare. Rev. Univ. şi Inst. Pol. Iaşi, I (1954), no. 1-2, 1-5
12. Câteva observaţii asupra semistructurilor de ordin finit. Rev. Univ. şi Inst. Pol. Iaşi, II (1955), 1-4
13. Independenţa condiţiilor de asociativitate. BPI (New Series), I (1955), 1-9
14. O aplicaţie a teoremei lui Weierstrass-Bernstein în calculul integral. BPI (New Series), II (1956), no. 1-2, 9-11
15. O definiţie axiomatică a determinanţilor. BPI (New Series), II (1956), no. 3-4, 1-7
16. Reprezentarea prin matrici grupale a unui grupoid multiplicativ. BPI (New Series), II (1956), no. 3-4, 9-18
17. Asupra unei teoreme din teoria structurilor. BPI (New Series), IV (1958), no. 1-2, p. 1
18. Criterii de existenţă pentru limita unui sir cu termeni reali. BPI (New Series), IV (1958), no. 1-2, 17-22
19. O clasă de inegalităţi. BPI (New Series), IV (1958), no. 3-4, 3-4
20. Rezolvarea unui sistem de ecuaţii functionale. BPI (New Series), IV (1958), no. 3-4, 7-10
21. O definiţie a funcţiilor trigonometrice. BPI (New Series), V (1959), no. 3-4, 35-38

22.Reprezentarea numerelor raţionale prin tetrade de intregi nonnegativi.BPI (New Series),VI (1960), no.1-2,37-42

23.Une définition unitaire des algebres à operations finitaires. BPI (N.S.),VI (1960),no.3-4,1-14

24.Anneaux faibles.BPI (N.S.),VII (1961),no.1-2,1-6

25.Vectorii ca bipuncte.BPI (N.S.),VII (1961),no.3-4,1-4

26.Programarea algebrică,I.O metodă directă pentru programarea liniară.BPI (N.S.),VIII (1962),no.1-2,1-4

27.La programmation algebrique,II;La programmation quadratique. BPI (N.S.),VIII (1962),no.1-2,5-8

28.Une fonction d'ensemble.BPI (N.S.),VIII (1962),no.3-4,1-4

29.Măsuri numerice cu un număr finit de valori in algebrele Boole. BPI (N.S.),IX (1963),no.1-2,1-6

30,Două probleme privind inegalităţile.BPI (N.S.),IX (1963),no.3-4, 1-6

31.La programmation algebrique,III;Compléments sur la programmation quadratique.BPI (N.S.),X (1964),no.1-2,1-4

32.O noua clasă de inele slabe.BPI (N.S.),X (1964),no.3-4,1-4

33.Programarea algebrică,IV;O forma canonică pentru programarea cu restricţii pătratice.BPI (N.S.),XI (1965),no.1-2,1-5

34.Les espaces à scalaires ≥ 0.BPI (N.S.),XI (1965),no.3-4,1-5

35.Sur l'équation fonctionnelle de la distributivité unilatérale,I. BPI (N.S.),XII (1966),no.1-2,1-6

36.Sur l'équation fonctionnelle de la distributivité unilatérale,II. BPI (N.S.),XII (1966),no.3-4,1-6

37.Asupra unei clase de algebre de ordinul patru.BPI (N.S.),XIII (1967), no.1-2,1-4

38.Sur l'équation fonctionnelle de la distributivité unilatérale,III. BPI (N.S.),XIII (1967),no.1-2,23-24

39.Application aux équations fonctionnelles de certaines constructions d'algebre universelle,I.BPI (N.S.),XIII (1967),no.3-4,1-4

40,Un théorème de transfert pour certaines équations fonctionnelles. BPI (N.S.),XIV (1968),no.1-2,19-22

41.Un problème de programmation inverse.BPI (N.S.),XIV (1968),no.1-2, 37-42

42.Une fonction numérique définie pour les algebres de Boole.BPI (N.S.),XIV (1968),no.3-4,1-4

43.Vecteurs et construction des modèles concrets d'espaces vectoriels. BPI (N.S.),XV (1969),no.1-2,1-6

44.Sur certaines operations complètes.BPI (N.S.),XV (1969),no.3-4,1-4

45.Théorèmes de transfert pour les équations fonctionnelles.Prace Matematyczne,Krakow,1969.

46.Une classe de fonctions multivoques.BPI (N.S.),XVI (1970),no.1-2. 1-4

47.Periodic solutions of a singular integral equation.BPI (N.S.),XVI (1970),no.3-4,5-8

48.Deux applications d'une procédé de construction de fonctions.BPI (N.S.),XVII (1971),no.1-2,1-6

49.Un calcul des applications.BPI (N.S.),XVII (1971),no.3-4,1-5

50.Remarques sur une construction d'applications à partird'une application multivoque.BPI (N.S.),XVIII (1972),no.1-2,1-4

51.O prezentare a integralei Riemann pentru funcţiile de o variabilă si extinderea procedeului la unele funcţionale definite analog. BPI (N.S.),XVIII (1972),no.3-4,9-13

52.Extension d'une des regles d'Hôspital.BPI (N.S.),XIX (1973),no.1-2,9-14

53.Asupra razei de convergenţă a seriilor lacunare,I.Gazeta Matematica,Seria A,12 (1960),517-522 (jointly with Viorel Murgescu)

54.Asupra razei de convergenţă a seriilor lacunare,II.Ibidem,24 (1972), 406-408 (jointly with Viorel Murgescu)

55.Solutie economică pentru dimensionarea barelordin tronsoane supuse la solicitări axiale.BPI (N.S.),VIII (1962),no.3-4,289-294 (jointly with Victor Bauşic)

56.Contribuţii la studiul barelor curbe plane.BPI (N.S.),IX (1963), no.3-4,291-294 (jointly with Victor Bauşic)

57.O clasă de operatori şi ecuaţii corespunzătoare.BPI (N.S.),XX (1974),no.3-4,9-10 (jointly with M.Gontineac and D.Motreanu)

58.O clasă de operatori şi ecuaţii corespunzătoare,I.BPI (.N.S.),XXII (1976),no.3-4,7-10 (jointly with M.Gontineac)

59.O clasă de operatori şi ecuaţii corespunzătoare,II.BPI (N.S.),XXIII (1977),no.3-4,7-13

Note.Besides the paperslisted above,Alexandru Climescu has published many other contributions to Mathematics and Mathematics Education. Several articles in Gazeta Matematica and other periodicals are related to the mathematical education of the Engineers.He has also published over 100 book reviews,mostly in the BPI.Lectures given to the high-school Mathematics teachers,articles devoted to the mathematical needs of the Economists,papers disseminating various mathematical cocepts and theories have been also published under his name,sometimes jointly with his colleagues.

FROM THE BOOKSHELVES

DAN TIBA:Optimal Control of Nonsmooth Distributed Parameter Systems. Lecture Notes in Mathematics,No.1459;Springer-Verlag,Berlin,1990.

This monograph on control problems for nonsmooth distributed parameter systems is organized as follows:ChapterI.Elements of Nonlinear Analysis (Function spaces and compactness;Monotone operators;Geeneralized gradients;Evolution equations associated with monotone operators). Chapter II.Semilinear Equations (An abstract control problem;Parabolic problems;Hyperbolic problems;Quasilinear problems;Other applications).Chapter III.Variational Inequalities (Parabolic problems;hyperbolic problems;The vibrating string with obstacles;The variational inequality method;Elliptic and optimal design problems).Chapter IV.Free Boundary Problems (Two-Phase Stefan problems;Distributed control;Boundary control;Discretization).
The book presents a wealth of recent results in the field,rather specialized but of real interest for applications.The author has been a participant in the seminars on control theory held at the Universities of Bucharest (A.Halanay) and Iaşi (V.Barbu),where he first spoke on the topics covered in the book.

C.CORDUNEANU:Integral Equations and Applications.Cambridge University Press,Cambridge,New York,1991,366 pp.

This book is organized as follows:Introduction (with a sketch of the history of integral equations and their applications).Chapter I.Introduction to the theory of integral equations (Besides problems leading to integral equations,this ch. contains classical results on Volterra type equations,the Fredholm theory for square integrable kernels, and the Dolph's theory of Hammerstein equations).Chapter II.Function spaces,operators,fixed points and monotone mappings (Spaces of continuous/measurable functions;Operators on function spaces;Fixed points, monotone operators).Chapter III.Basic theory of Volterra equations: integral and abstract (continuous solutions of Volterra integral equations;Abstract Volterra equations;Linear Volterra equations,the resolvent;A singular perturbation approach to abstract Volterra equations).

Chapter IV.Some special classes of integral and integrodifferential equations(Hammerstein equations and admissibility technique;Some problems related to resolvent kernels;Hammerstein equations on measure spaces;Ultimate behavior of solutions;Hammerstein integrodifferential equations and boundary value problems;Periodic and almost periodic solutions;Integral inclusions of Volterra-Hammerstein type).Chapter V. Integral equations in abstract spaces(Equations with bounded operators; Equations with unbounded operators in Hilbert spaces;The semigroup method;A nonlinear Volterra equation and the associated semigroup;Global existence for a nonlinear equation in Hilbert space.Chapter VI.Some applications of integral and integrodifferential equations(An integrodifferential equation describing coagulation processes;Optimal control processes governed by Volterra integral equations;Stability of nuclear reactors,A and B).The list of references includes over 500 entries.

PETER A. FEJER and DAN A.SIMOVICI:Mathematical Foundations of Computer Science,Volume I:(Sets,Relations,and Induction).Springer-Verlag,1991, 421 pp.

This first volume of the treatise is dedicated to the following topics: Chapter I.Elementary set theory(Introduction;sets,members,subsets; building new sets;exercises and supplements;comments).Chapter II.Relations and functions(Introduction;relations;functions;sequences,words; matrices;images of sets under relations;relations and directed graphs; special classes of relations;equivalence and partitions;general cartesian products;operations;representation of relations and graphs;relations and databases;exercises and supplements;comments).Chapter III. Partially ordered sets(Introduction;partial orderss and Hasse diagrams; special elements of partially ordered sets;chains;duality;constructing new posets;functions and posets;complete partial orders;the axiom of choice and Zorn's lemma;exercises and supplements;comments).Chapter IV. Induction(Introduction;induction on the natural numbers;inductively defined sets;proof by structiral induction;recursive definition of functions;constructors;simultaneous inductive definitions;propositional logic;primitive recursive and partial recursive functions;grammars;Peano's axioms;well-founded sets and induction;fixed points and fixed point induction;exerceses and supplements;comments).Chapter V. Enumerability and diagonalization(introduction;equinumerous sets; countable sets;enumerating programs;abstract families of functions;

exercises and supplements;comments).Each chapter has bibliographical comments,and the list of references extens on four pages.
This volume,together with the following one,constitute a basic reference for computer scientist and those who use this tool in their own discipline.

Integral Methods in Science and Engineering-90.A volume edited by A. Haji-Sheikh,Constantin Corduneanu,John L.Fry,Tseng Huang and Fred R. Payne.Hemisphere Publishing Corporation,New York,1991;614 pp.

This volume includes the papers given at the International Conference organized in May,1990,at the University of Texas at Arlington.The preceding conference on the same theme took place in 1985,and Hemisphere has published also the volume of contributions.
The papers included in the volume (a total of 54) are classified in seven chapters.Chapter I (Stochastic Analysis) contains 8 papers,including the general presentation of Hans Mark, "Trends in Science:The infinitely large,the infinitely small and the infinitely complex".Chapter II (Integral Equations) containsseven papers.Chapter III (Continuum Mechanics) contains nine papers,most of them dealing with numerical solutions of various problems in Continuum Mechanics.Chapter IV (Transport Processes)consists of ten papers.Topics like the design of supersonic aircraft by using integral methods,or the surface scattering phenomena are present in this chapter.Chapter V (Finite Analysis) contains nine papers:Conservation laws,Finite Element Methods,Quadrature and Cubature Methods are dealt with in this chapter.Chapter VI (Systems Dynamics) contains only three papers,including one invited paper.In Chapter VII (Supercomputer Applications) there are 12 contributions covering various topics,but having in common the use of supercomputers. Each chapter starts with a summary,which briefly describes the topics covered in the papers.A detailed index is closing the volume.

Proceedings of High Speed Aerodynamics,II.A volume edited by Adriana Nastase,RWTH-Aachen.Mainz Publishing House,Aachen,1990,190 pp.

The volume contains 12 contributions presented at the V-th Aerodynamic Seminar organized by the editor at RWTH-Aachen,from July 5 to 7,1987. The contributors,specialists in Aerodynamics ,or just Fluid Mechanics specialist,are embrassing a large variety of problems of current sig-

nificance in Science and Technology.The participants came to Aachen from 10 countries:Belgium,England,France,Germany,Israel,Italy,Japan, the Netherlands,Sweden and the USA.There have been 45 lectures scheduled,the volume including only the invited papers.The volume ends with various informations regarding the Seminar.

ADELINA GEORGESCU:Aproximatii Asimptotice.Editura Tehnica,Bucuresti, 1989,172 pp.

The following topics are covered in this monograph:Chapter I (Asymptotic Analysis) deals with asymptotic analysis,asymptotic sequences,asymptotic expansions,asymptotic solutions,linear differential equations in the complex field and ordinary differential equations with large parameters.Chapter II (Perturbation Theory) occupies the major part of the book and treats the regular and singular perturbations of differential equations with a small parameter,the classification of problems of singular perturbation,methods of singular perturbation,numerical methods for boundary layer problems,the method of multiple scales and averaging methods.Chapter III (Examples) discusses such topics as the example of Prandtl and Friedrichs.Chapter IV (Applications to the Classical Hydrodynamic Stability) deals with the equations of Rayleigh,Orr-Sommerfeld and several special problems of hydrodynamic stability.The book is highly specialized,yet accessible to many mathematicians,physicists and engineers.More than 150 references are given among them some related to such names as Bellman,Bogoljubov,Bruijn.Cesari,Van der Corput,Eckhaus,Erdelyi,Finn,Lagerstrom,Lions,O'Malley,Mitropolskii, Tartar,Tikhonov and Wasow.

IOAN N. POPESCU:Gravitation(Pleading for a New Unified Theory of Motion and Fields).Editrice Nagard,Roma,1988,786 pp.

This massive volume is divided in three books:Book I is dedicated to "Newton's Theory of Motion and of Interactions".This book occupies the first 160 pages of the volume and has the following subdivisions:The Foundations of the Classical Theory of Motion and The Newtonian Theory of Interactions.The presentation of these classical topics is made in critical manner,featuring problems and phenomena whose explanation is not satisfactory in that framework.Book II (The Great Schism) deals with "The Dissdence of Maxwell's Theory of Electromagnetism and of Einstein's Theory of Relativity".It is imoprtant to notice the fact that the author does not rely simply on theoretical considerations,

but presents a lot of experimental results and discusses in depth their significance for the theory.A good deal of Relativity Theory finds place in this book,together with its criticism.Book III (Towards a Unified Theory of Field and Motion) is the most original section of the volume under discussion.The three chapter included in this book are entitled as follows:"A more complete physical-mathematical model of gravitation:the gravitovortex","Certain grovitovortex amendments concerning the foundation and unified theory about motion in a gravitovortex field" and "The general equations of forces,of motion and of field in the gravitovortex".This book is the core of the volume,and like many theories of unified field it will certainly be controversial.The author states in the Foreword:"This book is not a book of erudition,but only one of ideas and it is mainly the result of the author's long meditation on certain phenomena,which have continuosly fascinated the imagination of Man,starting with ancient times". The readers will have certinly the right to ponder the statement made by the author,and conclude themselves about the significance of the topics and theories developed in this volume.

PAUL CONSTANTINESCU:Sinergia,Informaţia şi Geneza Sistemelor.Editura Tehnica,Bucuresti,1990,319 pp.

The book has French and English summaries.The author presents in this volume "an ontological,dual informational-energetic,conceptual framework,in which information has been considered as a component of matter together with energy,according to the last results of sciences - mainly of the Genetics,Biology and Cybernetics- concerning the objective character of information".The volume is divided in six chapters: I.The Synergy and its Ontological Role for Information and Energy. II.The Role of Information in the Genesis of Synergy for Natural Systems.III.The Role of Regulators in the Genesis of Synergy for Hierarchical Systems.IV.Principles of Realization of Synergy.V.The Genesis of Systems in the Nonalive Realm.VI.The Genesis of Systems in the Realm of Alive,Psychological and Economico-Social. The mathematical apparatus involved is quite considerable,and models from Quantum Mechanics and other highly specialized fields are encountered.Some appeal for socio-economic aspects make the book really interesting.

IOANA CIORANESCU:Geometry of Banach Spaces,Duality Mappings and Nonlinear Problems.Kluwer Academic Publishers,Dordrecht/Boston/London,1990,260 pp.

This volume is dedicated by the author to the Memory of her father, Nicolae Cioranescu - a Romanian mathematician who brought significant contributions to the Classical Analysis. He was a Professor of Mathematical Analysis at the Bucharest Polytechnic.
From author's presentation;"This volume presents an introduction to the basic results and methods of the theory of nonlinear operators and their applications to functional equations and partial differential equations.A significant feature of the book is that duality mapping is taken as the unifying approach.The first three chapters provide a survey of the properties of duality mappings.The remaining three chapters deal with nonlinear operators.The presentation is self-contained with only assumed knowledge of the elementary theory of Banach spaces and some acquaintance with local convex topologies.Each chapter concludes with exercises and bibliographical comments".This book is primarily addressed to mathematicians with interest in functional analysis and operator theory.It will profe useful as a supplementary text.The list of references extends on 20 pages and an Index is placed at the end of the volume.

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A N N O U N C E M E N T

The 17th Annual Congress of the American Romanian Academy of Arts and Sciences will be held from June 3 through 7,1992,at the California State University in Northridge (18111 Nordhoff Street/NORTHRIDGE CA 91330).The local organizer of the Congree is Prof.Dr.Ileana Costea.Tel: (818)-784-0813.
A Mathematical Session will be organized.Those interested to participate,please contact ARA as soon as possible.

News from Romania

SOLIDARITATEA UNIVERSITARA
(Romanian University Solidarity)
APPEAL

It will soon be the second anniversary of the dramatic events of 14-15 June 1990,when the miners attacked the University of Bucharest and the Institute of Architecture

At the time,the students and the academic staff were oppressed,libraries and laboratories were destroyed and the university precincts vandalized.

Almost two years later,the government of Romania has made no proper investigation or attempt to establish the guilt and the identity of the perpetrators.

We ask the international scientific community and all those working in universities and colleges to express their sense of community with the acdemic staff and the sudents of Romania,by making 14-th of June an International Day of Solidarity.

We hope there will be public meeting organized in countries worldwide,expressing their solidarity,and we are asking you to send letters of protest to the President and the Government of Romania,showing the disgust provoked by their inexcusable failure to take action on this matter.

Solidaritatea Universitara
Bulevardul Balcescu , 1
Bucuresti,Romania

A New Mathematical Society (SMR)

A group of faculty members from the University of Bucharest,joined by researchers from Mathematical Institute of the Academy,have taken the initiative of foundation of a new mathematical society in Romania. The role of the new society is to promote the mathematical research in the country,to disseminate the most significant and recent results obtained in the mathematical field of research (in the country and abroad),to reorganize exchange programs with similar institutions from other countries,to reorganize the cooperation in between the various centers of mathematical research in Romania.

The society also consider the task of making the attitude and the opinions on different events and problems (not necessarily of mathematical interest) known through the mass media.Of course,in case it is considered that the members of the society can bring a valuable contribution to the debate.

On November 16,1990,The Court of Sector 1 in Bucharest has awarded judicial status to the Society of Mathematicians from Romania (SMR), in Romanian "Societatea Matematicienilor din Romania".At the end of the year 1990,SMR has become a founding member of the European Mathematical Society.

For the current affairs of the Society,until a General Assembly of its member will take place, a coordinating council has been designated with the following members:

President:Dr. Nicolae Popescu
Vice-Presidents: Dr.Constantin Banica
Dr.Gheorghe Bucur
Secretary:Dr.Şerban Basarab
Treasurer:Dr.Tiberiu Sparcu
Members:Dr.Lucian Badescu,Dr.G.Gussi,
Dr.Eugen Soos,Dr.Ion Suciu
Dr.Florian Horia Vasilescu,Dr.Constantin Varsan

The annual dues are as follows: Lei 200 (two hundred),or $ 20.00 if the member resides abroad.BRCE (Romanian Bank of Foreign Trade has opened the accounts # 45.10.612 - 9 for Lei,and # 47.21.612.300.1 for $$$).

An appeal is launched by the founders toward all Romanian mathemati-

cians outside Romania to join the new Society.
The following address should be used in correspondence related to the Society of Romanian Mathematicians:

Institutul de Matematica al Academiei Romane
P.O.Box 1-764 , RO-70700
BUCHAREST , Romania

Note.As one Romanian colleague explained us,the relationship between the new Society and the "old one" (to be soon centennial) is the same as that between the AMS and MAA.

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The Institute of Applied Mathematics

The Romanian Academy has a new Mathematical Institute,besides the well-known Institute of Mathematics,namely - the Institute of Applied Mathematics.
A circular letter signed by Academician CAIUS IACOB,as Honorary Director,and by Dr.ADELINA GEORGESCU as Director,is announcing the foundation of the new institute,within Romanian Academy.As the letter stipulates,the Istitute will develop its activities under the patronage of the Romanian Academy.
The letter continues:"The main activity at the Institute will consist in a comprehensive program of seminars:general seminars (thermodynamics od dissipative processes,dynamical systems,mathematical models for fluid dynamics);departmental seminars (functional analysis, numerical simulation of fluid flow,statistical mechanics of fluids, mathematical models and techniques of experimental aerodynamics); English and German languages lessons;workshop on strictly specialized topics;training seminars for young researchers;seminars on recent scientific literature;seminars for examining the papers submitted for publication".
Other activities envisaged by the Institute:Counseling various institutions (distinct department);Assisting members of the Institute to attend national and world scientific events;Organizing Summer and Winter courses for interdisciplinary studies;Preprint series to be published;Boks to be prepared for publication.

Suggestions and proposals regarding the present and future activities

of the Institute of Applied Mathematics are welcome.

Members of the Institute of Applied Mathematics

1.Adelina Georgescu , Fluid Mechanics (hydrodynamic stability and bifurcation,boundary layer theory,deterministic turbulence,asymptotic approximations,Navier-Stokes equations)

2.Horia Dumitrescu,Fluid Mechanics (turbulence,subsonic aerodynamics, experimental fluid mechanics,aerodynamics of rotating bodies, heat transfer,two-phase flows)

3.Mihai Popescu, Theoretical Mechanics (stability of motion,applications of optimal control in astronautics)

4.Vladimir Cardoş, Fluid Mechanics (high-speed aerodynamics,dynamics of compressible fluids,wave mechanics)

5.Ioan Jadic, Applied Aerodynamics (computational fluid mechanics,theoretical mechanics)

6.Gabriela Marinoschi,Meteorology (classical mathematical models)

7.Denis-Melvin-Nicolae Enachescu,Numerical Analysis (onte-Carlo method for PDE,computational algebra)

8.Valentin Butoescu, Aerodynamics (classical subsonic nonstationary aerodynamics,computational aerodynamics)

9.Octavian Ban,Numerical Analysis (computational fluid dynamics,functional analytic methods)

10.Dănuţ Sima,Transonic aerodynamics (grid generation,computational mathematics,functional analytic methods)

11.Alexandru Dumitrache, Experimantal Aerodynamics (subsonic aerodynamics,calculus of propellers,numerical methods)

12.Dan-Florin Dumitrescu,Flight Dynamics (numerical analysis,computer graphics,compu-ational fluid mechanics)

13.Razvan Florea,Fluid Mechanics (computational fluid mechanics,2-D boundary layer,subsonic and transonic aerodynamics)

14.Felicia Mocanu,Computational Aerodynamics

15.Stelian Ion,Numerical Methods (fluid dynamics,thermodynamics,multiphase processes)

16.Andrei Andrei,Water and Air Pollution (variational methods,numerical methods,functional analytic methods)

17.Călin Vamoş, Meteorology (statistical physics,asymptotic analysis)

18.Nicolae Suciu,Dynamical Hydrology (physics of the atmosphere,statistical mechanics,asymptotic analysis)

19.Iulia Gherguţ,Physics of Atmosphere (meteorology,statistical physics, asymptotic approximations)

20.Mazilu-Dorin Marinescu,Dynamical Systems (DS on differentiable manifolds,operator theory)

21.Virgil Muşat,Aerodynamics (transonic flows,boundary layer theory,computational fluid dynamics)

22.Gheorghe Ghiţă,Hydropneumatic Systems (solid mechanics)

23.Anca Sima,Experimental Mathematics.

The address of the institute is:

Institute of Applied Mathematics
Bd,Pacii 220
Bucharest , 79622 Romania

Note.We notice that the address of the new institute is the same as the address of the Mathematical Institute of the Romanian Academy (more precisely,at INCREST).The Director of the Mathematical Institute of the Academy has informed us that all attempts made so far in obtaining the building of the Institute in Calea Grivitei have remained without an answer from the authorities.The building from Calea Grivitei was accomodating both the Mathematical Institute of the Academy and the Center for Statistics.It would be.perhaps,sufficient for both mathematical institutes of the Romanian Academy.One cannot but be amazed by the fact that the Romanian Government(s) after revolution still persists in keeping at their disposal the stolen property from individuals or institutions.

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A group of Romanian mathematicians,including Prof.Gheorghe Galbura and Prof.Cabiria Andreian-Cazacu from the University of Bucharest and Drs. Martin Jurchescu and Petru Caraman from the Mathematical Institute of the Romanian Academy,has participated at the Vi-th Symposium on General Topology and Applications,held in Vadul lui Voda (a locality nearby Chişinau,Republic of Moldova (Bassarabia),from September 9 to September 14,1991.An excursion to the Black Sea has closed the participation.

From A.R.A.Newsletter

The 16th Congress of the American Romanian Academy

Bucharest,June 27-July 2,1991

For the first time since the American Romanian Academy of Arts and Sciences has been founded,the Annual Congress of the Academy has been held in Romania.The Congress has been attended by over 800 partici - pants from all around the world.Two hundred fifty reports have been presented during the meeting.These reports have been divided in 22 different sections and 11 round-tables have been also scheduled.

The impressive opening ceremony of the Congress was held in the great hall of the Romanian Athenaeum,where the participants have been joined by numerous specially invited guests from the intellectual community, the diplomatic corps the media and university students.The ceremony was broadcast live by television and radio. In her address at the ope- ning ceremony,Dr.Maria Manoliu-Manea,the President of A.R.A.,stated: "This Congress is dedicated to our native country's intellectuals, those wo have fought for freedom of expression and human rights and were able to create valuable and scientific or artistic works,despite the hostile political pressure from the past anti-intellectual Com- munist regime,and who continue to fight for academic autonomy,for the right to think and create in a democratic political climate,in which their efforts will be valued and recognized by a better and fairer civil society".

Greetings have been expressed to the Congress by the United States Ambassador to Romania,the Honorable Alan Green,Jr. He briefly out- lined the principles of American policies toward Romania.

Profeeor Nicolae Cristescu,Rector of the University of Bucharest,Pro- fessor V.N.Constantinescu,Rector of the Bucharest Polytechnic Insti- tute,and Professor Mihai Draganescu,President of the Romanian Academy have also greeted the participants,during the opening ceremony.Prof. Dan Gabriel Cacuci and Prof. Sanda Golopentia Eretescu,both from the ARA Executive Committee,and active organizers of the Congress,have also addressed the participants during the opening ceremony.

The sessions of the ARA Congress were held in the buildings of the University of Bucharest.The following sections of the Congress have been represented:Linguistics,Arts,Anthropology-Ethnology,Sociology,

Religion,Philosophy,History,Literary Criticism,Political Science,Geology,Biology,Mechanical Engineering,Medicine,Mathematics,Physics, Chemistry,Economics,Technology,Media.

On the occasion of the ARA Congress,several artistic and cultural events were staged in Bucharest.On Sunday,June 30,the participants have been invited to a tour of the city of Bucharest,whic also included vivid reminders of the destruction by the communist regime.

The participants from abroad have been invited by the Students' Union of the Bucharest University to a meeting at which the leaders of the Union described their activities and presented a research on the Romanian anti-communist resistence.

Several press conferences have been organized,at which Professor Maria Manoliu-Manea many questions addressed by the journalists.Articles have been published in abundance,about the Congress,by the Romanian press.

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As usual,during the Annual Congress of ARA,a session dedicated to Mathematics has been organized.The information about this session has been conveyed to us by Dr.Fabian Todor,from the University of Montreal,who was among the participants to the Mathematical Session and who presided it.

The following papers have been presented in the Mathematical Session of the ARA Congress held in Bucharest:

1.Fabian TODOR,presented the communication "Sur une famille d'integrales avec parametres importuns;tests de convergence". This paper appears in the present volume of this journal.

2.Florin Gheorghe MAGERIU,presented the paper "Funcţia de Potenţial Informaţional - Dezvoltare a Teoriei Matematice a Informaţiei". This paper is written by a sociologist,and makes use of mathematical tools.

3.Alexandru MATEESCU and Dragoş VAIDA presented the paper "Structuri matematice discrete,Aplicaţii".A book with the same title has been published by the Printing House of the Romanian Academy (1989).The contents are featuring topics like Iteration Conditions and Applications to pro-

gramming Languages,Algebraic Stuctures in Programmes Semantics,Van Wijngaarden Grammars and in Appendix, Ordered Algebraic Structures.

4.Dumitru N.TODOROI (Chişinău,Moldova) presented the paper "The Problems of Adaptable Programming".
From author's paper:"Adaptables are tools of programming,capable to adapt the requirements of computer users.The adaptation tends to universalization and specification of tools of programming,making them more accessible to the language of communication between users."

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AN INTERNATIONAL CENTER FOR ENGINEERING EDUCATION

Dr.Adrian Adascaliței from the Polytechnic Institute in Iași is the Director of the newly created "International Center for Engineering Education",which is publishing the "Iași Polytechnic Magazine".
The address of the center is:

P.O.Box 132 , Iași 1
RO - 6600 (Romania)

IașiPolytechnic Magazine is published quartrly (March,June,September and December) by the Polytechnic Institute of Iași.This publication is in addition to the Buletinul Institutului Politehnic "GH.Asachi" from Iași,which contains only research papers.
The scope of the Center and of the Magazine is the improvement of the Engineering Education,particularly in Romania.The most pressing goal of the Center is the creation and the maintenance of a collection of technological and applied science publications,the betterment of the national anf international exchange programs,to establish better communication between the universities/colleges and research institutions and to promote the new technologies and interdisciplinary studies.
Any suggestions and materials helping to carry out the program of the Center are welcome.

P E R S O N A L I A

Dr. Dan Pascali has been appointed to a Visiting position at Rutgers University,New Brunswick,N.J.

Dr. Aurel Bejancu from the Polytechnic Institute in Iaşi,visited the University of Windsor,Canada,during the Fall Semester 1991.

Florentin Smarandache has been accepted as a Graduate Student at the Arizona State University in Tempe,AZ,where he is working for a Ph.D. degree in Mathematics under the supervision of Professor Bremner. He has published recently "Only Problems,not Solutions" at the Xiquan Publishing House in Phoenix.On December 1,1990,Smarandache authored the issue #1 ,Vol. 1 , of the "Smarandache Function Journal".The Smarandache function,according to F.S.,is defined as follows:for any natural number n,the value of the function is the positive integer m, such that n divides m!, and m is the smallest possible.

Dr.Florin Diacu has been appointed on a tenure track position at the University of Victoria,B.C.,Canada.

Dr.Claudia Simionescu has obtained her "Habilitation" from the University of Salzburg,Austria,in 1990.She presented the thesis "Integrodifferentialgleichungen,Eine Einfuhrung;Theorie - Anwendungen - Programmierung".The speciality is "Mathematik und Systemanalysis". The Committee included Prof.Dr.Peter Zinterhof,Prof.Dr.Dan Pascali and Prof.Dr.Radu Theodorescu.

Prof.Constantin Corduneanu has attended the First European Conference on Elliptic and Parabolic Equations,held in Pont-a-Mousson,France,in June 1991,and the First European Control Conference held in Grenoble, in July,1991.

Dr.Vasile Staicu,from S.I.S.S.A in Trieste,Italy,has obtained his Ph. degree in October 1990,presenting the thesis "Well Posedness for Differential Inclusions".The thesis has been written under the guidance of Professor Arigo Cellina,at the International School for Advanced Studies in Trieste.Dr.Staicu has taken the initiative to create in Bucharest a similar institution,which should help in reorganizing and promoting the mathematical advanced studies in Romania (under the auspices of UNESCO).Dr.Vasile Staicu is the author of more than 20 mathematical research papers,just published or in print at prestigious journals.

AUTHORS OF VOLUME XI

ALI A. ANSARI has obtained his mathematical and engineering degrees from the University of Texas at Arlington.He defended hi Ph.D.Thesis in 1990, with a subject from Control Theory (Polynomials in Control Theory).The thesis supervisor was Prof.C.Corduneanu.Presently,Dr.Ansari is on a tenure track position at Virginia State University in Peterburg,VA.

DAN BUTNARIU has obtained his degrees in Mathematics from the University of Iaşi,Romania.He was a Visting Professor with the Department of Mathematics,the University of Texas at Arlington,during the academic year 1990-1991.He is currently an Associate Professor of Mathematics at the University of Haifa,Israel.

JOHN CARSTOIU (see the article dedicated to his 80th Anniversary in this volume of Libertas Mathematica,and his address in the list of mathematicians of Romanian extraction,residing outside Romania)

IRINEL DRAGAN is a Professor of Mathematics at the University of Tecas at Arlington.He is currently involved in teaching and conducting research in the field of Operations Research.A biographical notice is included in volume II of Libertas Mathematica.

MOHAMMAD MOADAB has obtained his Ph.D. degree in Mathematics from the University of Texas at Arlington,in 1988.He has defended a thesis on Discrete Dynamical Systems (Oscillations) written under guidance of Professor C.Corduneanu.He was an Associate Professor with the Odessa College in Odessa,Texas,from 1988 until 1990.Presently,he is an Associate Professor of Mathematics at the Virginia State University,Petersburg,VA.

B.G.PACHPATTE is a Professor of Mathematics and Chairman of the Department of Mathematics at Marathwada University,in Aurangabad,Maharashtra, India.He has published over 300 mathematical papers,mostly in the area of Classical Analysis.

DAN PASCALI (see a biographical notice in the volume III of Libertas Mathematica and his address in the list of mathematicians of Romanian extraction in this volume).

ILIE POPESCU is Professor of Computer Science at the University of Quebec at Hull.See the biographical note in the Volume III of Libertas Mathematica).

RADU PRECUP is a faculty member with the University of Cluj-Napoca,Romania,the Faculty of Mathematics and Informatics.

CONSTANTIN SIMIRAD has obtained his degrees in Mathematics from the University of Iaşi,with a thesis on qualitative theory of differential equations.He has been a high-school teacher in Botoşani,Romania,for few years,before returning to Iaşi for his Ph.D. degree.He was appointed a Research Fellow and for a certin period he has been attached to the Astronomical Observatory of the University.

FLORENTIN SMARANDACHE is currently a graduate student (for Ph.D.) with the Arizona State University at Tempe,AZ.For more biographical information see Libertas Mathematica,volume VII (p.193).

FABIAN TODOR (see the biographical note in the volume VII of Libertas Mathematica and his address in this volume,the list of mathematicians of Romanian extraction residing outside Romania).

CONSTANTIN TUDOSIEwas born in Tâmna (Mehedinţi), Romania,on January 28, 1925.He graduate from Timişoara Polytechnic Scool and presently is with the Polytechnic Institute of Cluj-Napoca,Department of Mechanics.His Ph.D. thesis has been written under the guidance of Prof.Gabriela Tzitzica,and was entitled "Contributions to the areolar problems and the influence of higher order accelerations in the mechanical motion". Dr. Tudosie has published over 80 research papers in various periodicals in Romania and abeoad.He has also written and published a course of Theoretical Mechanics for the use of Engineering students.He participated in many scientific events in Romania,Italy,Yougoslavia,Czechoslovakia,Hungary,Poland,England.

CORNELIU URSESCU is a research staff member with the Mathematical Institute of the Romanian Academy,the Branch of Iaşi.He has conducted research work in Mathematical Analysis and Control Theory,particularly in the field of Nonsmooth Control.

VIOREL VLAD graduated from the Polytechnic University of New York,with a Master of Science degree in Computer Sciences.While in Romania,Mr. Vlad attended courses and graduated from the Polytechnic Institute of Bucharest,with a Master of Science degree in Engineering.He held several positions with institutes of higher education in Bucharest,before immigrating to the United States of America.For the last nine years,Mr. Vlad was associated with AT&T,where e is a Member of the Technical Staff

in the field of Software Engineering.He also teaches Computer Science courses,holding a part time position as an Assistant Professor with the Department of Computer Science at William Paterson College of New Jersey.

SAMUEL ZAIDMAN is a Professor of Mathematics at the University of Montreal,Canada.His research work is concentrated on differential equations, including equations in abstract spaces,with application to partial differential equations.He has authored several books on the subject,as well as a great number of research papers.For a biographical sketch,see Libertas Mathematica,volume III.

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Prof.C.Corduneanu
Department of Mathematics
Box 19408 , UTA
ARLINGTON , TX 76019

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