

Notices from the ISMS

(Novae Scientiae Mathematicae)

September 2009

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Promoting Mathematical Sciences

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Scientiae Mathematicae Japonicae, Notices from the ISMS

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The ISMS has enhanced the journal, beginning from July 1995, by including excellent Research-Expository papers in the section "**International Plaza** for Mathematical Sciences" as well as original research papers. The section provides papers dealing with broad overviews of contemporary mathematical sciences, written by experts mainly at our invitation. Papers shedding lights on open problems or new directions or new breakthroughs for future research are especially welcome.

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For benefit of the ISMS members, we publish "Notices from the ISMS" 6 times a year. We are enhancing it by adding interesting articles, including book reviewing, written by eminent professors.

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BOOK REVIEW
T.A. BURTON, LIAPUNOV FUNCTIONALS FOR INTEGRAL
EQUATIONS, TRAFFORD PUBLISHING, VICTORIA, BC,
CANADA, 2008

As it is well known amongst specialists in the area, the Liapunov's direct method was originally directed at ordinary differential equations and afterwards has been gradually adapted to the study of partial differential equations and functional differential equations of both ordinary and partial type.

In the case of integral equations, if they could be differentiated to produce an integro-differential equation, then the Liapunov's method still could be applied.

But some of the most important integral equations, e.g., the ones that arise in the process of inverting a perturbed differential operator, cannot be approached by differentiating them. In the 1950s an idea by Krasovskii has been essential to open the way of extending the method of Liapunov to integral equations without the need of differentiating them.

This book is an excellent introduction to the study of integral equations by focusing on the use of Liapunov functionals. One of the main merits of it is to clearly emphasize that fixed point theory and Liapunov theory work hand-in-glove, and therefore, throughout the book the author worked in such a way to tie them together. Moreover, the intersection of the contents of this book with those of so many excellent classical treatments is very small. This is another essential merit of the book which is mainly based on the use of different methods. These new methods yield in fact results which are of types not previously seen in the theory of integral equations.

The book contains nine chapters, preceded by a Preface and ends by a list of References, as well as Author and Subject Indexes.

Chapter 0, **Introduction and Overview**, which makes a smooth introduction in the topic of the book, comprises three sections: 0.1. **An idea with many applications**; 0.2. **An introductory lecture**; 0.3. **Notation**. The titles of subsections of each of the first two sections are extremely suggestive for the topic covered. Section 0.1 contains important information on the *History* of Liapunov method, while the other subsections are: **The present problem**; **Outline of coverage**.

In subsection 0.2 the matter is divided in **Part I. Perfect Harmony**; **Part II. Great Discord**; **The Big Function Vanishes** and **The Little Function Rules**, respectively.

Chapter 1 is devoted to the introduction of the topic that will cover much of the first half of the book, i.e., Linear Equations, Existence, and Resolvents. The titles of subsections are also quite suggestive: 1.1. **A Qualitative Approach**; 1.2. **Existence and Resolvents**, which presents amongst other, Gronwal's Inequality, a Historical Note, Resolvents vs Principal Matrix Solution; Joint Continuity; Principal Matrix Solution; Variation of Parameters Formula; and The Adjoint Equation.

Chapter 2, titled The Remarkable Resolvent, is mainly concerned with basic classical type results for the integral equation

$$x(t) = a(t) - \int_0^t C(t, s)x(s)ds$$

whose kernel satisfies a condition of the form

$$\sup_{t \geq 0} \int_0^t |C(t, s)| ds \leq \alpha < 1.$$

The chapter is substantial (114 pages out of 361 of the book) and comprises the following sections: 2.1. Perfect harmony; 2.2. A Strong Resolvent: the Scalar Case; 2.3. An Unusual Scalar Equation; 2.4. A Mathematical David & Goliath: Periodicity; 2.5. Floquet Theory; 2.6. Liapunov Functionals for Resolvents; 2.7. Integro-differential Equations; 2.8. A nonlinear Application and 2.9. Notes. The goal of the investigations in this chapter is to determine suitable conditions on $C(t, s)$ and vector spaces that fit with such functions C , resulting in control information which is critical in concrete applications.

Chapter 3, Existence Properties, is devoted to a global existence theorem (Section 3.1) and related topics, while in Chapter 4, Applications and Origins, the covered topic is: the ways in which integral equations emerge from differential equations (Section 4.1); some of the classical problems in integral equations which begin as integral equations and frequently are not nicely reducible to differential equations (Section 4.2); contrasting properties of kernels (Section 4.1).

Chapter 5, Infinite Delay: Schaefer's Theorem, is a second substantial chapter that systematically studies nonlinear equations with infinite delay which are never convertible into a differential equation. The last three chapters of the book treat the following matters: The Krasnoselskii-Schaefer Theorem (Chapter 6); Stability: Convex Memory (Chapter 7); and Appendix: Preparing the Kernel (Chapter 8), respectively.

A bibliography occupying 8 pages and including 151 titles, most of them (40) being papers or books (see [1]-[5]) written by the author of the present book, is located at the end of the book and provides a comprehensive and up to date reference source for those who wish to develop their knowledge further, or to refer to various seminal papers that stimulated the evolution of the topic studied in the book.

The style of writing is clear and concise and the choice of topics is comprehensive and good, as are the illustrative examples included in each chapter.

This book is an exceptionally complete and accessible text for graduate students, researchers, and professionals in biology, chemistry, economics, engineering, mathematics, and physics. It may be used in graduate-level courses, as a self-study resource, or as a research reference.

REFERENCES

- [1] Burton, T.A., *Volterra Integral and Differential Equations*, Academic Press, Orlando, 1983
- [2] Burton, T.A., *Stability and Periodic Solutions of Ordinary and Functional Differential Equations*, Academic Press, Orlando, 1985
- [3] Burton, T.A., *Volterra Integral and Differential Equations*, Second Edition, Elsevier, Amsterdam, 2005

- [4] Burton, T.A., *Stability and Periodic Solutions of Ordinary and Functional Differential Equations*, reprinted by Dover Publications, Mineola, NY, 2005
- [5] Burton, T.A., *Stability by Fixed Point Theory for Functional Differential Equations*, Dover Publications, Mineola, NY, 2006

Vasile BERINDE

Communications :

() Conferences for Young Algebraists

Klaus Denecke

The following list gives some information on the future conferences of young algebraists:

1. CYA (79. AAA), Olomouc (Czech Republic), February 2010

See also pages 10 and 11 of Notices from the ISMS, January 2007.

() Call for Proposals and Organizers for Special Sessions in IVMS 2010

For details, please see pages 18 to 20 of Notices from the ISMS, March 2008.

Organizers should access to the following URL and send us the application form.

http://www.jams.or.jp/hp/ivms_organizers.html

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- (1) Authors can choose one of the editors in the Editors List and send their papers directly to him/her for refereeing which promises **quick refereeing and publication**.
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(A) Submission

Authors are requested to choose one of the editors in the SCMJ editors list and send their papers, satisfying all of the following conditions, **directly to the editor**. The editors list can be obtained from (i) URL:<http://www.jams.or.jp/> (ii) “ Editorial Board” of SCMJ(Vol.68, No. 3, November 2008).

Prepare **e-mail Form for Submission and three** hard copies of your paper, **three** hard copies of Form for Submission, and send them as follows.

- **To the editor’s e-mail address**; Form for Submission (with the abstract)
- **To the editor’s postal address**; **Two** hard copies of your paper, **two** hard copies of the Form for Submission (with the abstract)
- **To the e-mail address of ISMS** (<http://www.jams.or.jp/hp/submission f.html>); Form for Submission (with the abstract)
- **To the postal address of ISMS**; **One** hard copy and **one** Form for Submission

The received date of the paper is the date when the editorial office receives the paper together with the Form for Submission, and not necessarily the date when the editors receive them.

To e-mail Form for Submission is mandatory to support the editor-receive-system, not to waste the precious research time of the editors and promote efficiency in the editorial procedure.

(B) Abstract

Every paper should contain an abstract. Try to limit your abstract to 20 lines when typed in TeX. The abstract should be a kind of mini research announcement which is **self-contained** and gives **the overview** of your paper. Abstracts of accepted papers are **very rapidly displayed** on ISMS home page and are announced **all over the world via Internet**. Abstracts in Paper Form and E-mail Form should be typed **in Text file**. If it is inevitable for you to use symbols in the abstract, you may make it in a TeX source file indicating **the kind of TeX** as notes, for example, (via LaTeX2e).

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The full postal address, telephone and facsimile numbers, e-mail address of the author should be specified at the bottom of the last page of the manuscript. 2000 AMS Subject Classification and Keywords should be written both in Paper, E-mail Form and at the **footnote** on the first page of the manuscript.

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If your paper contains graphs or figures which cannot be processed even in LaTeX(2e), make them EPS (Encapsulated Post Script) files and then PDF files.

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(1) A hard copy of the final draft(for publishing)

- (2) Paper Form for WWW
- (3) The source file of the final draft in TeX, by e-mail or on diskette.
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- (1) A list of papers in the order of the accepted date.
- (2) A list of accepted papers organized by field of specialization with a link to (1). The field of specialization of the accepted papers will be chosen by the authors in the fields of f-1 - f-14.
(See a list on page 25)

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Give the following information by filling in the items on the list.

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 110. Date of dispatching this form
 120. Title of Paper
 125. Abbreviated Title (Running Title) of Paper (**Less than 35 letters**)
 130. The field of specialization in the fields of f-1~f-14 (page 25) of the paper
 132. Keywords and phrases
 135. Number of Pages of the manuscript
 140. Number of Authors
 151. First author's name, affiliation (institution /university) and its postal address
 152. Second author's name, affiliation (institution /university) and its postal address
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- f-1. Mathematical logic, Set theory, Relative systems, Algebra systems
- f-2. Classical algebra, Number theory, Combinatorics, Cryptology
- f-3. Topology, Geometry, Imaging
- f-4. Real analysis, Complex analysis
- f-5. Functional analysis, Operator theory
- f-6. Differential equations, Integral equations, Functional equation, Numerical analysis
- f-7. Infinite dimensional dynamical systems, Inverse problems
- f-8. Fluid dynamics, Atmospheric research, Rheology, Computer aided design, Control theory, Nanoscience
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- f-10. Operations Research, Decision theory, Queuing theory, Scheduling, Mathematical finance, Mathematical economics
- f-11. Informatics, Pattern recognition, Imaging, Computer science, Computer simulation
- f-12. Biomathematics, Proteomics, Imaging, Bioscience, System biology
- f-13. Mathematical education, History of mathematics
- f-14. Over several fields (Ex. Fixed point theory)

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3-year member (3A)	A3: ¥24,000	F3: US\$200, €160	D3: US\$117, €93
1-year students or aged (1S)	SA1: ¥5,000	SF1: US\$40, €32	SD1: US\$27, €21
3-year students or aged (3S)	SA3: ¥12,000	SF3: US\$100, €80	SD3: US\$71, €57
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(2) our account No.1565679 at SUMITOMO BANK, Sakai, Osaka, Japan.

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8. Panel (Please choose one out of the following 14panels in the page 26 and write the panel number. You could choose one or more.)

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11. If you wish to be a student member, please verify.

12. Is your university (institution) an Academic or Institutional Member of the ISMS? Yes or No.

13. If the answer of 12 is Yes, please answer the following. Are you designated associate member by your university (institution)?

14. Date

15. Signature

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Join ISMS !

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- 3) The original papers and surveys of distinguished mathematical scientist appear in every issue of SCMJ. The section called “International Plaza” of SCMJ has very interesting expository papers written by the eminent mathematical scientist of the world. Presentations of recent research frontier including award lectures by the winners of the ISMS Prize or Shimizu Prize are made.
- 4) **ISMS Annual Meeting:** Many researchers of ISMS members and non-members gather and take time to make presentations and discussions in their research groups every year.
- 5) The ISMS holds inter-regional videoconferences called **International Videoconference of Mathematical Sciences (IVMS)** via internet. There is no need for the participants to travel abroad.

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Table 1: Subscription Price

	Individual 1-year mem.	Individual 3-year mem.	Institutional member	List Price
Print / year	¥ 6,000 US\$60, €48	¥ 5,500 * US\$55, €44	¥ 33,000 US\$300, €240	¥ 45,000 US\$400, €320
Online/year	Free	Free		
Online+Print / year	¥ 6,000 US\$60, €48	¥ 5,500 * US\$55, €44	¥ 33,000 US\$300, €240	¥ 45,000 US\$400, €320

Postal charge is US\$2 (€1.6) per issue. *In case three-year members make the payment at a time in advance, the price for 3 years is ¥ 15,000 (US\$150, €120). The authors can buy a copy of the print version at a price of ¥ 1,200 (US\$12) per issue including postage.

Table 2: Publication charge for accepted papers

The charge system for accepted papers has been changed and the basic publication charge has been introduced to reduce the total publication charge. The publication charge consists of the **basic publication charge (¥1,000(US\$10, €7))** and the **page charge**. The page charges per printed page are **drastically reduced** as follows.

	ISMS members	Non-members
p	¥ 3,500 (US\$35, € 23)	¥ 4,000 (US\$40, €27)
Tex	¥ 2,000 (US\$20, € 14)	¥ 2,500 (US\$25, €17)
LateX2e, LaTeX	¥ 700 (US\$ 7, € 4)	¥ 1,000 (US\$10, € 7)
Js (ISMS style file)	¥ 500 (US\$ 5, € 3)	¥ 800 (US\$ 8, € 5)

Table 3: Membership Dues for this year

Categories	Domestic	Overseas	Developing countries
1-year member (1A)	A1: ¥ 9,000	F1: US\$75 , €60	D1: US\$45, €36
3-year member (3A)	A3: ¥ 24,000	F3: US\$200, €160	D3: US\$117, €93
1-year students or aged (1S)	SA1: ¥ 5,000	SF1: US\$40, €32	SD1: US\$27, €21
3-year students or aged (3S)	SA3: ¥12,000	SF3: US\$100, €80	SD3: US\$71, €57
Life member* (L)	AL: ¥ 90,000	FL: US\$740, €592	DL: US\$616, €493

*The members who have been the ISMS members for more than 10 years are eligible for this category. The categories 1S and 3S are for students or persons over 70 years old.