Notices from the ISMS
(Novae Scientiae Mathematicae)
September 2009

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Promoting Mathematical Sciences
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SCMJ is the 21st Century New Unified Series of *Mathematica Japonica* (MJ) and *Scientiae Mathematicae* (SCM). MJ was first published in 1948 and was one of the oldest mathematical journals in Japan. SCM was an online and print journal started in 1998 in celebration of the semi-centurial anniversary and received 26000 visits per month from 50 countries in the world. SCMJ contains original papers in mathematical sciences submitted from all over the world and receives 38000 visits per month now. Not only papers in pure and applied mathematics but those devoted to mathematical statistics, operations research, informatics, computer science, biomathematics, mathematical economics and other mathematical sciences are also welcome. The journal is published in January, March, May, July, September, and November in each calendar year.

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.

As is shown in the Editorial Board of SCMJ, we have invited many distinguished professors of 20 countries as editors, who will receive and referee the papers of their special fields with their high standard.

Beginning from 2007, we make the online version of SCMJ more readable and convenient to the readers by adding the specialized contents. By this, the readers can access to the online version, in which the papers appear in the order of acceptance, from (i) the contents of the printed version, and (ii) the specialized contents of a volume. From 2007, the subscription fee of the printed version plus the online version of SCMJ becomes lower and the same of the printed version only. Therefore, the subscribers of the printed version can read the online version without no additional cost.

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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 an other 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**

BOOK REVIEW T.A. BURTON, LIAPUNOV FUNCTIONALS FOR INTEGRAL EQUATIONS, TRAFFORD PUBLISHING


Vasile BERINDE
Communications:

(Ⅵ) 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.

(Ⅵ) 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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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.
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<td>SA3: ¥12,000</td>
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Join ISMS!

ISMS Publications: We published Mathematica Japonica (M.J.), which enjoyed an international reputation, for about sixty years in print and its offspring Scientiae Mathematicae (SCM) both online and in print. In January 2001, the two publications were unified and changed to Scientiae Mathematicae Japonicae (SCMJ), which is the “21st Century New Unified Series of Mathematica Japonica and Scientiae Mathematicae” and published both online and in print. Ahead of this, the online version of SCMJ was first published in September 2000. The number of the annual total pages of the print version has been from 900 to 1,200 pages in six issues since January 1978. The whole number of SCMJ exceeds 240, which is the largest amount in the publications of mathematical sciences in Japan. The features of SCMJ are:

1) About 90 eminent professors and researchers of not only Japan but also 20 foreign countries join the Editorial Board. The submitted papers are received directly by the editors and are refereed quickly. The accepted papers are published online with no lead time after compiling or proofreading. SCMJ is reviewed by Mathematical Review and Zentralblatt from cover to cover.

2) SCMJ is distributed to many libraries of the world. The papers in SCMJ are introduced to the relevant research groups for the positive exchanges between researchers.

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.

Privileges to ISMS Members: (1) Free access (including printing out) to the online version of SCMJ, (2) Discounted price for the printed version of SCMJ (See Table 1), (3) Discounted page charges (See Table 2).

Privileges to Institutional Members: (1) Two associate members can be registered, free of charge, from an institution. (2) The discounted page charges (Table 2) are applied to the associate members.

Table 1: Subscription Price

<table>
<thead>
<tr>
<th></th>
<th>Individual 1-year mem.</th>
<th>Individual 3-year mem.</th>
<th>Institutional member</th>
<th>List Price</th>
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<tbody>
<tr>
<td>Print / year</td>
<td>¥ 6,000</td>
<td>¥ 5,500 *</td>
<td>¥ 33,000</td>
<td>¥ 45,000</td>
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<td>US$60, €48</td>
<td>US$55, €44</td>
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<td>Online+Print / year</td>
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</table>

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.

<table>
<thead>
<tr>
<th>ISMS members</th>
<th>Non-members</th>
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<tbody>
<tr>
<td>p</td>
<td>¥ 3,500 (US$35, € 23 )</td>
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<tr>
<td>Tex</td>
<td>¥ 2,000 (US$20, € 14 )</td>
</tr>
<tr>
<td>LateX2e, LaTeX</td>
<td>¥ 700 (US$ 7, € 4 )</td>
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<td>Js (ISMS style file)</td>
<td>¥ 500 (US$ 5, € 3 )</td>
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Table 3: Membership Dues for this year

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

*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.