The corresponding homogeneous integral equation

$$u(x) = \mu \int_0^{\pi} \mathcal{G}(x, y)u(y)dy, \quad 0 \le x \le \pi,$$

is equivalent to (29"). In particular, we get

$$u_n(x) = \mu_n \int_0^{\pi} G(x, y)u_n(y)dy, \quad 0 \le x \le \pi, \quad n = 1, 2, ....$$
 (32)

Finally, recall that the inner product on  $L_2(0,\pi)$  is given by

$$(f \mid g) := \int_0^\pi f(x)g(x)dx.$$

Ad (i). This follows from Proposition 4(i) in Section 4.4.

Ad (ii). It follows from Proposition 4(ii) in Section 4.4 that (30) has a solution iff

$$(b \mid u_n) = 0.$$

By (31),

$$\begin{array}{l} (b \mid u_n) = \int_0^\pi \left( \int_0^\pi \mathcal{G}(x,y) f(y) dy \right) u_n(x) dx \\ = \int_0^\pi \left( \int_0^\pi \mathcal{G}(x,y) u_n(x) dx \right) f(y) dy = \int_0^\pi \mu_n^{-1} u_n(y) f(y) dy \\ = \mu_n^{-1} (f \mid u_n), \end{array}$$

since G(x,y) = G(y,x) for all  $x,y \in [a,b]$ . Therefore,  $(b \mid u_n) = 0$   $(f \mid u_n) = 0$ .

Observe that  $u \in D(A)$ . By (iii), there exists a function w span $\{u_1, u_2, \ldots\}$  such that

$$\Delta := \max_{0 \le x \le \pi} |u(x) - w(x)| < \varepsilon.$$

Hence

$$\|u-w\| = \left(\int_0^\pi (u(x)-w(x))^2 dx\right)^{\frac{1}{2}} \le \pi^{\frac{1}{2}} \Delta < \pi^{\frac{1}{2}} \varepsilon.$$

This implies

$$||v-w|| \leq ||v-u|| + ||u-w|| < \varepsilon + \pi^{\frac{1}{2}}\varepsilon.$$

Thus, the set span  $\{u_1, u_2, ...\}$  is dense in  $L_2(0, \pi)$ .

# **Applied Functional Analysis Applied Functional Analysis**

J. Tinsley Oden, Leszek Demkowicz

# **Applied Functional Analysis Applied Functional Analysis:**

A Course of Applied Functional Analysis Arthur Wouk,1979 Applied Functional Analysis J. Tinsley Oden, Leszek Demkowicz, 2017-12-01 Applied Functional Analysis Third Edition provides a solid mathematical foundation for the subject It motivates students to study functional analysis by providing many contemporary applications and examples drawn from mechanics and science This well received textbook starts with a thorough introduction to modern mathematics before continuing with detailed coverage of linear algebra Lebesgue measure and integration theory plus topology with metric spaces The final two chapters provides readers with an in depth look at the theory of Banach and Hilbert spaces before concluding with a brief introduction to Spectral Theory The Third Edition is more accessible and promotes interest and motivation among students to prepare them for studying the mathematical aspects of numerical analysis and the mathematical theory of finite elements **Applied Functional Analysis** Eberhard Zeidler, 2012-12-06 A theory is the more impressive the simpler are its premises the more distinct are the things it connects and the broader is its range of applicability Albert Einstein There are two different ways of teaching mathematics namely i the systematic way and ii the application oriented way More precisely by i I mean a systematic presentation of the material governed by the desire for mathematical perfection and completeness of the results In contrast to i approach ii starts out from the question What are the most important applications and then tries to answer this question as quickly as possible Here one walks directly on the main road and does not wander into all the nice and interesting side roads. The present book is based on the second approach It is addressed to undergraduate and beginning graduate students of mathematics physics and engineering who want to learn how functional analysis elegantly solves mathematical problems that are related to our real world and that have played an important role in the history of mathematics. The reader should sense that the theory is being developed not simply for its own sake but for the effective solution of concrete problems viii Preface Our introduction to applied functional analysis is divided into two parts Part I Applications to Mathematical Physics AMS Vol 108 Part II Main Principles and Their Applications AMS Vol 109 A detailed discussion of the contents can be found in the preface to AMS Vol 108 Applied Functional Analysis A. V. Balakrishnan, 1976 Applied Functional Analysis Alampallam V. Balakrishnan, 2012-12-06 In preparing the second edition I have taken advantage of the opportunity to correct errors as well as revise the presentation in many places New material has been included in addition reflecting relevant recent work. The help of many colleagues and especially Professor J Stoer in ferreting out errors is gratefully acknowledged I also owe special thanks to Professor v Sazonov for many discussions on the white noise theory in Chapter 6 February 1981 A V BALAKRISHNAN v Preface to the First Edition The title Applied Functional Analysis is intended to be short for Functional analysis in a Hilbert space and certain of its applications the applications being drawn mostly from areas variously referred to as system optimization or control systems or systems analysis One of the signs of the times is a discernible tilt toward application in mathematics and

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