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Record Nr.	UNINA9911019710803321
Autore	Murio Diego A. <1944->
Titolo	The mollification method and the numerical solution of ill-posed problems / / Diego A. Murio
Pubbl/distr/stampa	New York, : Wiley, c1993
ISBN	1-283-10099-1 9786613100993 1-118-03146-6 1-118-03321-3
Descrizione fisica	1 online resource (272 p.)
Disciplina	515.353 515/.353
Soggetti	Numerical analysis - Improperly posed problems Inverse problems (Differential equations) - Numerical solutions
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A Wiley interscience publication."
Nota di bibliografia	Includes bibliographical references (p. 232-248) and index.
Nota di contenuto	The Mollification Method and the Numerical Solution of Ill-Posed Problems; Contents; Preface; Acknowledgments; 1. Numerical Differentiation; 1.1. Description of the Problem; 1.2. Stabilized Problem; 1.3. Differentiation as an Inverse Problem; 1.4. Parameter Selection; 1.5. Numerical Procedure; 1.6. Numerical Results; 1.7. Exercises; 1.8. References and Comments; 2. Abel's Integral Equation; 2.1. Description of the Problem; 2.2. Stabilized Problems; 2.3. Numerical Implementations; 2.4. Numerical Results and Comparisons; 2.5. Exercises; 2.6. References and Comments 3. Inverse Heat Conduction Problem3.1. One-Dimensional IHCP in a Semi-infinite Body; 3.2. Stabilized Problems; 3.3. One-Dimensional IHCP with Finite Slab Symmetry; 3.4. Finite-Difference Approximations; 3.5. Integral Equation Approximations; 3.6. Numerical Results; 3.7. Exercises; 3.8. References and Comments; 4. Two-Dimensional Inverse Heat Conduction Problem; 4.1. Two-Dimensional IHCP in a Semi-infinite Slab; 4.2. Stabilized Problem; 4.3. Numerical Procedure and Error Analysis; 4.4. Numerical Results; 4.5. Exercises; 4.6. References and Comments

Sommario/riassunto	Uses a strong computational and truly interdisciplinary treatment to introduce applied inverse theory. The author created the Mollification Method as a means of dealing with ill-posed problems. Although the presentation focuses on problems with origins in mechanical engineering, many of the ideas and techniques can be easily applied to a broad range of situations.

2.	Record Nr.	UNINA9910637756603321
	Autore	Brennecke Dennis
	Titolo	Marine Mammals : A Deep Dive into the World of Science
	Pubbl/distr/stampa	Cham : , : Springer International Publishing AG, , 2023 ©2023
	ISBN	3-031-06836-X
	Edizione	[1st ed.]
	Descrizione fisica	1 electronic resource (95 p.)
	Collana	Biomedical and Life Sciences Series
	Altri autori (Persone)	KnickmeierKatrin PawliczkaIwona SiebertUrsula WahlbergMagnus
	Soggetti	Zoology & animal sciences Veterinary medicine Ecological science, the Biosphere
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Sommario/riassunto	This highly-readable Open Access textbook provides basic background information about marine mammals and anthropogenic impacts on them. The book includes inspiring exercises for education school programs in natural sciences. The book also provides advice on career paths using case studies of marine scientists and veterinarians describing their journeys from student to profession. By sharing real-life career paths, readers find answers to questions such as "What needs to be considered when choosing a career in science?" and "What kind of tasks do scientists undertake on a daily basis?" Marine mammals are amongst some of the most celebrated creatures on Earth, with their high intelligence, social and communicating skills, and capacity for deep diving. Alongside general information about marine mammals, the book aims at generating awareness of the impact of litter and noise pollution on the marine environment using marine mammals as an example. Huge numbers of marine animals, including marine mammals, die every year from entanglement in fishing gear, by

ingestion of litter or because of chemical pollution. In the last decade many technological and scientific tools have been developed to aid research, for instance miniaturised sound recorders which can be attached to cetaceans and seals and record noise levels around them, their vocal production as well as their diving behaviour. This Open Access textbook can be used by undergraduate students interested in the fundamentals of marine mammal biology and medicine, and in pursuing the profession of a marine scientist.