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Nota di contenuto	Preface; Contents; 1 Introduction; 2 Examples of Direct and Inverse Problems for Mixed Systems; 3 Overview of Integral Equations and Discrete Inverse Problems; 4 Inverse Problems in Dynamic Calibration of Sensors; 5 Active Vibration Control in Flexible Structures; 6 Acousto-Mechatronics; 7 Thermo-Mechatronics; 8 Magneto-Mechatronics; 9 Inverse Problems Issues for Non-Minimum Phase Systems; References; Index; About the Author
Sommario/riassunto	This unique book extends mechatronics to spatially distributed systems. Issues regarding remote measurements and indirect monitoring and control of distributed systems is presented in the general framework of the recently developed ill-posed inverse problems. The book starts with an overview of the main results in the inverse problem theory and continues with the presentation of basic results in discrete inverse theory. The second part presents various forward and inverse problems resulting from modeling, monitoring and controlling mechanical, acoustic, fluid and thermal systems. Finally, indi