

1. Record Nr.	UNINA9910299781603321
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Titolo	Generalized Adjoint Systems // by Demetrios Serakos
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-16652-2
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (72 p.)
Collana	SpringerBriefs in Optimization, , 2190-8354
Disciplina	515.352
Soggetti	Calculus of variations Operator theory Functional analysis Calculus of Variations and Optimal Control; Optimization Operator Theory Functional Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Introduction -- 2.Preliminaries -- 3. Spaces of time functions consisting of input-output systems -- 4. A generalized adjoint system -- 5. A generalized adjoint map -- 6. On the invertibility using the generalized adjoint system -- 7. Noise and disturbance bounds using adjoints.-8 . Example -- 9. Summary and conclusion On the input-output system topology.
Sommario/riassunto	This book defines and develops the generalized adjoint of an input-output system. It is the result of a theoretical development and examination of the generalized adjoint concept and the conditions under which systems analysis using adjoints is valid. Results developed in this book are useful aids for the analysis and modeling of physical systems, including the development of guidance and control algorithms and in developing simulations. The generalized adjoint system is defined and is patterned similarly to adjoints of bounded linear transformations. Next the elementary properties of the generalized adjoint system are derived. For a space of input-output systems, a generalized adjoint map from this space of systems to the space of generalized adjoints is defined. Then properties of the generalized

adjoint map are derived. Afterward the author demonstrates that the inverse of an input-output system may be represented in terms of the generalized adjoint. The use of generalized adjoints to determine bounds for undesired inputs such as noise and disturbance to an input-output system is presented and methods which parallel adjoints in linear systems theory are utilized. Finally, an illustrative example is presented which utilizes an integral operator representation for the system mapping.
