

Lanczos Iteration - Theory

The matrices Q_k generated by the Arnoldi iteration are reduced QR-factors of the Krylov matrix:

$$K_k = Q_k R_k$$

The tridiagonal matrices T_k are the corresponding projections

$$T_k = Q_k^* A Q_k$$

And the successive iterates are related by the formula

$$A Q_k = Q_{k+1} \begin{bmatrix} T_k \\ \beta_k e_k^* \end{bmatrix} = Q_k T_k + \beta_k q_{k+1} e_k^*$$

Iteration Theory

György I. Targonski



Iteration Theory:

Iteration Theory and its Functional Equations Roman Liedl, Ludwig Reich, György Targonski, 2006-11-14

Iteration Theory - Proceedings Of The European Conference C Simo, Christian Mira, Gyoergy Targonski, Norbert Netzer, 1991-07-22 The main topics of this proceedings stress the interactions between the theory of functional equations and the theory of dynamical systems A total of 38 invited lectures are included [Iteration Theory - Proceedings Of The European Conference](#) W Forg-rob, Norbert Netzer, Christian Mira, Gyoergy Targonski, Detlef Gronau, 1996-07-03 Iteration theory has its roots in the operation of substituting functions into itself This has led to questions like that of the behaviour of functions by repeating this substitution and when the number of iterations tends to infinity The terms orbit and chaos appropriately describe this behaviour Dynamical systems and the theory of functional equations play important roles in this field **Iteration Theories** Stephen L. Bloom, Zoltán Ésik, 1993 This monograph contains the results of our joint research over the last ten years on the logic of the fixed point operation The intended audience consists of graduate students and research scientists interested in mathematical treatments of semantics We assume the reader has a good mathematical background although we provide some preliminary facts in Chapter 1 Written both for graduate students and research scientists in theoretical computer science and mathematics the book provides a detailed investigation of the properties of the fixed point or iteration operation Iteration plays a fundamental role in the theory of computation for example in the theory of automata in formal language theory in the study of formal power series in the semantics of flowchart algorithms and programming languages and in circular data type definitions It is shown that in all structures that have been used as semantical models the equational properties of the fixed point operation are captured by the axioms describing iteration theories These structures include ordered algebras partial functions relations finitary and in finitary regular languages trees synchronization trees 2 categories and others *Iteration Theories* Stephen L. Bloom, Zoltan Esik, 2012-12-06 This monograph contains the results of our joint research over the last ten years on the logic of the fixed point operation The intended audience consists of graduate students and research scientists interested in mathematical treatments of semantics We assume the reader has a good mathematical background although we provide some preliminary facts in Chapter 1 Written both for graduate students and research scientists in theoretical computer science and mathematics the book provides a detailed investigation of the properties of the fixed point or iteration operation Iteration plays a fundamental role in the theory of computation for example in the theory of automata in formal language theory in the study of formal power series in the semantics of flowchart algorithms and programming languages and in circular data type definitions It is shown that in all structures that have been used as semantical models the equational properties of the fixed point operation are captured by the axioms describing iteration theories These structures include ordered algebras partial functions relations finitary and in finitary regular languages trees synchronization trees 2 categories and others [Iteration Theory \(Ecit 91\) -](#)

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