1.	Record Nr.	UNISA996418203603316
	Autore	Hachenberger Dirk
	Titolo	Topics in Galois fields / / Dirk Hachenberger and Dieter Jungnickel
	Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] ©2020
	ISBN	3-030-60806-9
	Edizione	[1st ed. 2020.]
	Descrizione fisica	1 online resource (XIV, 785 p. 11 illus.)
	Collana	Algorithms and Computation in Mathematics, , 1431-1550 ; ; 29
	Disciplina	512.3
	Soggetti	Finite fields (Algebra) Galois theory
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Basic Algebraic Structures and Elementary Number Theory -- Basics on Polynomials- Field Extensions and the Basic Theory of Galois Fields -- The Algebraic Closure of a Galois Field -- Irreducible Polynomials over Finite Fields -- Factorization of Univariate Polynomials over Finite Fields -- Matrices over Finite Fields -- Basis Representations and Arithmetics -- Shift Register Sequences -- Characters, Gauss Sums, and the DFT -- Normal Bases and Cyclotomic Modules -- Complete Normal Bases and Generalized Cyclotomic Modules -- Primitive Normal Bases -- Primitive Elements in Affin Hyperplanes -- List of Symbols -- References -- Index.
	Sommario/riassunto	This monograph provides a self-contained presentation of the foundations of finite fields, including a detailed treatment of their algebraic closures. It also covers important advanced topics which are not yet found in textbooks: the primitive normal basis theorem, the existence of primitive elements in affine hyperplanes, and the Niederreiter method for factoring polynomials over finite fields. We give streamlined and/or clearer proofs for many fundamental results and treat some classical material in an innovative manner. In particular, we emphasize the interplay between arithmetical and structural results, and we introduce Berlekamp algebras in a novel way which provides a deeper understanding of Berlekamp's celebrated factorization algorithm. The book provides a thorough grounding in finite field

theory for graduate students and researchers in mathematics. In view of its emphasis on applicable and computational aspects, it is also useful for readers working in information and communication engineering, for instance, in signal processing, coding theory, cryptography or computer science.

2.	Record Nr.	UNINA9910886992203321
	Autore	Trelat Emmanuel
	Titolo	Control in Finite and Infinite Dimension / / by Emmanuel Trélat
	Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
	ISBN	9789819759484
		981975948X
	Edizione	[1st ed. 2024.]
	Descrizione fisica	1 online resource (145 pages)
	Collana	SpringerBriefs on PDEs and Data Science, , 2731-7609
	Disciplina	629.8312
	Soggetti	System theory
		Control theory
		Differential equations
		Mathematical optimization
		Systems Theory, Control
		Differential Equations
		Optimization
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	Chapter 1 Controllability -- Chapter 2. Optimal control -- Chapter 3 Stabilization -- Chapter 4 Semigroup theory -- Chapter 5 Linear control systems in Banach spaces.
	Sommario/riassunto	This book is the result of various master and summer school courses the author has taught. The objective is to provide the reader with an introduction to control theory and to the main tools allowing to treat general control systems. The author hopes this book will serve as motivation to go deeper into the theory or numerical aspects that are not covered in this book. This book might be helpful for graduate students and researchers in the field of control theory.

3.

Record Nr.	UNINA9911024160503321
Autore	Zdarta Jakub
Titolo	Polish Achievements in Materials Science and Engineering
Pubbl/distr/stampa	MDPI - Multidisciplinary Digital Publishing Institute, 2025
Descrizione fisica	1 electronic resource (332 p.)
Soggetti	Historyofengineeringandtechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia