1.	Record Nr.	UNINA9910812890103321
	Titolo	Tropical and idempotent mathematics and applications : International Workshop on Tropical and Idempotent Mathematics, August 26-31, 2012, Independent University, Moscow, Russia / / G. L. Litvinov, S. N. Sergeev, editors
	Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 2014 ©2014
	ISBN	1-4704-1684-0
	Descrizione fisica	1 online resource (300 p.)
	Collana	Contemporary mathematics, , 1098-3627 ; ; 616 , 0271-4132
	Classificazione	15A8016Y6005C2014T0552A3035F2190C4865H2092C4282B30
	Disciplina	516.3/5
	Soggetti	Tropical geometry Geometry, Algebraic Idempotents
	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 at the end of each chapters.
	Nota di contenuto	Preface -- In Memory of Grigory Litvinov -- Tropical Cramer determinants revisited -- 1. Introduction -- 2. Semirings with a symmetry and a modulus -- 3. Combinatorial properties of semirings -- 4. Elimination in semirings and Cramer theorem -- 5. Existence of solutions of tropical linear systems -- 6. Homogeneous systems: the generalized Gondran-Minoux theorem -- 7. Systems of balances and intersections of signed hyperplanes -- 8. Computing all Cramer Permanents: tropical Jacobi versus transportation approach -- 9. Computing determinants -- Acknowledgment -- References -- An approximation of Hopf-Lax type formula via idempotent analysis -- 1. Introduction -- 2. Basic notions of idempotent analysis -- 3. Approximation formulas to solutions of Hamilton-Jacobi equations -- References -- Ideals of MV-semirings and MV-algebras -- 1. Introduction -- 2. Preliminaries -- 3. Ideals, congruences and quotients -- 4. The frame of radical ideals of an MV-semiring -- 5. The frame of radical ideals of an MV-algebra -- 6. The frames of open sets of \Spec( ) and of \Spec( ) -- 7. The frame of open sets of \Max( ) -- References -- 2. Optimal solution -- 3. Approximate solution --

4. Conclusions -- References -- Algebraic structures of tropical mathematics -- 1. Introduction -- 2. Algebraic background -- 3. The layered structure -- 4. Matrices and linear algebra -- 5. Identities of semirings, especially matrices -- References -- Parametric dequantization, tropical reduction of hyperfields and steady states of AC electrical networks -- 1. Introduction -- 2. Real tropical polynomials over a semifield -- 3. Parametric limits of polynomials with various conditions on their coefficients -- 4. Complex tropical polynomials over hyperfield and tropical reduction -- 5. The power balance equations in AC network -- 6. Tropical reduction of the power balance equations, Foster coefficients and minimal spanning trees -- 7. Concluding remarks -- References -- A constrained tropical optimization problem: Complete solution and application example -- 1. Introduction -- 2. Preliminary definitions and results -- 3. Linear inequalities -- 4. An optimization problem -- 5. Applications to optimal scheduling -- Acknowledgments -- References -- On the mathematical foundations of classical thermodynamics.

2.	Record Nr.	UNINA9911008941403321
	Autore	Islam Torequl
	Titolo	Methods for Laboratory Studies (Focusing Area
	Pubbl/distr/stampa	New York : , : Nova Science Publishers, Incorporated, , 2023 ©2023
	ISBN	9798891133389 9798891132665
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (392 pages)
	Collana	Research Advances in Communication Studies
	Disciplina	615.1072/4
	Soggetti	Drug development Drugs - Research - Methodology
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Natural product drug discovery -- Introduction to non-clinical and pre-clinical studies -- Collection and extraction of materials -- Isolation of lead compounds -- Management of experimental animals -- Acute

toxicity study and dose determination -- Administration route selection -- Nanotechnology : the interaction of metal ions with extract -- Biological activity studies -- Biopharmaceutical studies -- Toxicity analysis -- Computer-aided drug design (in silico study) -- Reagent preparation.

Sommario/riassunto	"In the dynamic field of drug discovery and development, non-clinical and pre-clinical studies are the foundation of success. With global relevance, "Methods for Laboratory Studies" is your comprehensive guide, offering vital insights for researchers, educators, and students worldwide. The book begins by highlighting the crucial role of non-clinical studies, conducted with strict adherence to Good Laboratory Practice (GLP) regulations. From experimental animals to diverse therapeutic goals, it ensures the highest safety and compliance standards. Dive deeper into early pre-clinical studies, the compass for Go/No-Go decisions. Here, you'll uncover the core elements of a new drug's journey, from pharmacokinetics to safety profiles, including toxicogenetics. Emphasizing GLP-compliant studies, like repeated dosage toxicity, genotoxicity, and safety pharmacology, it guarantees safe human exposure before human trials. Before entering human trials, meticulous completion of non-clinical and pre-clinical studies establishes a robust foundation for Investigational New Drug (IND) applications. Gain insights into the comprehensive research data package bridging the gap between animal and human trials as you turn the pages. After IND approval, additional GLP tests assess carcinogenicity, genotoxicity, chronic toxicity, and reproductive and developmental toxicity. "Methods for Laboratory Studies" isn't just a textbook; it's your gateway to mastering drug discovery. Whether you're a student, educator, or seasoned researcher, this book provides lucid, essential guidelines, empowering you to shape the future of pharmaceutical science"--