كلية العلوم

رسائل الماجستير والدكتوراه لمكتبة قسم الرياضيات

summary	pages	size	year	supervisor	theses	Title	ID	Name	م
Digital watermarking has emerged as a prominent method for copyright protection and protection against forgery in various fields, including ordinary and medical color images. After the COVID-19 pandemic, the importance of those tasks increased, as many industries were forced to transition online	142	24 c. m	2024	Taha Morsy El-Gindy Mohamed Mostafa Darwish	Doctor	DIGITAL IMAGE WATERMARKING USING DEEP LEARNING	13101766	Amal Abd-Elazim Mohamed Mohamed	1
The impact of tempered fractional differential equations increases rapidly; they arise in many applications and scientific areas, and their numerical solutions are highly indispensable. In addition, extensive literature encompasses comprehensive numerical methodologies for handling tempered fractional differential equations and their diverse applications across fields such as biology, chemistry, electricity, mechanics, physics, economy, biophysics, signal and image processing, control theory, aerodynamics, and blood flow phenomena. Tempered fractional differential equations play a crucial role in defining the constraints of random walk simulations, utilizing an exponentially	188	24 c. m	2024	Hassan Mohamed El-Hawary Alaa Fahim Mohammed	Doctor	NUMERICAL TREATMENT FOR DIFFERENT DIMENSIONAL, FRACTIONAL DIFFERENTIAL EQUATIONS	13081334	Sayed Abd El Mohsen Dahy Gaad	2

tempered power-law jump distribution within the framework of fractional diffusion equations.									
Theory of basic sets of polynomials (BPs) lays a crucial role in different mathematical ranches, aiding mathematicians and rofessionals in mathematical fields by mplifying studies in areas such as partial ifferential equations, mathematical physics, nd nonlinear analysis. This thesis introduces dditional approaches for the field of BPs in oth complex and Clifford analysis, ncompassing different regions for Fréchet paces and Banach modules.	68	24 c. m	2024	Ali Mohamed Saddeek Gamal F..... Hassan	Master	xpansions of som unctions in comple nd Clifford analys ia bases approac	13074488	*Amira Adel Atta*	3
In recent years, significant effort has been made to develop fractional mathematical- models to describe infectious disease dynamics. Mathematical modeling and analysis of infectious disease dynamics have several benefits including: (i) they can be used to test different conditions and provide new insights into questions that cannot be answered by clinical or experimental studies, (ii) they can improve diagnosis and treatment strategies in	100	24 c. m	2024	Khalaf M. Abd-elhakim Shaimaa A. Azoz Fatma H. Abd-allah	master	DYNAMICAL BEHAVIOR OF SOME FRACTIONAL ORDER BIOLOGICAL MODELS	13075134	Hoda Abd-elsamea Mohamed Farghaly	4

the highest efficiency at the lowest possible cost, and with a minimum of side effects, which raise the hopes of patients, (iii) they can be used to estimate key parameter values that control the infection process or reduce the pathogen load in the body.									
The main goal of the thesis, is to investigate the study of some properties of surfaces such that w-surface, lw-surface, harmonic, bi-harmonic, stability of surface in integer and fractional order derivative using a يconformable fractional derivative, which best suits the algebraic structure of differential geometry.	166	24 c. m	2024	Mohamed A. Soliman Hamdy Noor . Abd-Ellah	master	Differential Geometry of Surfaces in the Euclidean Space with Fractional-Order Derivative	13081307	Mohamed Ahmed Mohamed Basuney	5
Endo-Noetherian property on modules were introduced by A. Kaidi and E. Sanchez in [22] as a generalization of Noetherian modules. A left R-module M is called endo-Noetherian if it satisfies the ascending chain condition for endomorphic	57	24 c. m	2024	. Ahmed Abd El-Monsef Allam Khalaf Mahmoud	master	Relations Between a Ring and Its Subrings and Its Extensions	13102127	Neamat Abdelnasser Mohamed	6

kernels. A ring R is called left endo-Noetherian if (_R^1)R is endo-Noetherian as a left module. The main objective of The main objective of this thesis is to transfer the property of left (right) endo-Noetherian to some ring extensions. We have answered the question that when does the skew generalized power series R[[S,ω]] is left endo-Noetherian?				Abdelhakiem					
The modified Burr XII (MBXII) distribution is a generalization of the Burr XII distribution by adding a new parameter. Adding one or more parameters to a distribution function makes it richer and more flexible to analyzing data, hence it is better than the Burr XII and has been applied to a wide range of situations including applications in medicine, reliability and ecology. The event of interest frequently happens as a result of some circumstances in experiments on reliability and survival analysis. Making judgments without considering these aspects or focusing on just one of them could produce undesirable outcomes. The competing risks problem is a term used in the statistical literature to describe the data analysis that considers all the factors that contribute to the relevant event.	106	24 c. m	2024	Abd EL-Baset Abdullah Ahmad Sara Mohamed Adel Mohamed Ali	master	STATISTICAL INFERENCES FOR THE MODIFIED BURR XII MODEL IN THE PRESENCE OF COMPETING RISKS	13102587	***Safaa Abdelaziz Abdelzaher Soliman***	7

Nanoparticle (NP) transport across porous media has the potential to revolutionize cancer therapy by enabling tailored drug administration with increased effectiveness and reduced systemic toxicity. This thesis investigates some problems of heat and mass transfer in nanofluid flow in porous media and the NP transport dynamics, and its implications for cancer	118	24 c. m	2024	Mohamed Ahmed Mansour Fouad Sayed Ibrahim .	master	Studying the Influence of Nanoparticle Drainage Through Lymphatic Vessels	13102597	Nora Fattah Ahmed Abed El-Kareem	8

treatment techniques. This thesis contains four main chapters.									
This thesis investigates some properties of rings in the context of skew generalized power series rings. The main objective is to introduce the structure of certain classes of non-commutative rings and their extensions. Let R be a ring with identity, (S,≤) an ordered monoid, ω:S→End(R) a monoid homomorphism, and A=R[[S,ω]] the ring of skew generalized power series. The concepts of semi-Baer and semi-quasi Baer rings were introduced by Waphare and Khairnar as extensions of Baer and quasi-Baer rings, respectively. In this thesis, we examine the behavior of a skew generalized power series ring over a semi-Baer (semi-quasi Baer) ring and prove that, under specific conditions, the ring A is semi-Baer (semi-quasi Baer) if and only if R is semi-Baer (semi-quasi Baer). Also, we prove that if f is a multiplicative finite element of A, then f(1) is a multiplicative finite element of R .	56	24 c. m	2024	Ahmed Abd El-Monsef Allam Refaat Mohammad Salem Khalaf Mahmoud Abdel-Hakim Samia Mohamed Abdelwahab	master	A study of some algebraic properties of rings	13102604	Mostafa Mohamed Mostafa Abdulrahman	9