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Education Information

Doctorate, Bath, School Of Mathematics, Computer And Mathematical Sciences, United Kingdom 1989 - 1993

Advising Theses

BAYRAM M., Mathematical Models By Fundamental Thermodynamic Equations On Paper Drying, Doctorate, G.Koyunlu(Student), 2016

BAYRAM M., Boundedness, periodicity and stability of some difference equations, Doctorate, S.Ebru(Student), 2016

BAYRAM M., Satranç Atı Probleminde Kullanılan Arama Algoritmaları, Özellikleri ve Çözümleri, Postgraduate, İ.Can(Student), 2016

BAYRAM M., On stability, periodicity and boundedness of some fourth order rational difference equations' solutions, Doctorate, M.Tuba(Student), 2016

BAYRAM M., Adomian Ayrıştırma (Decomposition) Metodu ile Modelleme Örnekleri, Postgraduate, H.Akyol(Student), 2016

BAYRAM M., Senkronizasyon, Postgraduate, F.Burcu(Student), 2016

BAYRAM M., Rasyonel İnterpolasyon Yöntemleri ve Uygulamaları, Postgraduate, B.Ali(Student), 2016

BAYRAM M., Numerical solutions of algebraic Riccati equations, Doctorate, B.Özyurt(Student), 2016

BAYRAM M., A study of Lebesgue constants in barycentric rational and multivariate polynomial interpolation, Doctorate, B.Ali(Student), 2016

BAYRAM M., Numerical solutions of fractional differential-algebraic equations, Doctorate, B.İbiş(Student), 2016

BAYRAM M., Diferensiyel Denklemlerin Diferensiyel Dönüşümler Yardımıyla Çözümü, Postgraduate, Y.Güngör(Student), 2016

BAYRAM M., Numerical Solution of Differential-algebraic Equations, Doctorate, E.Celik(Student), 2016

BAYRAM M., Sembolik ve Nümerik Metotlarla Enzim Kinetiği Problemlerinin İncelenmesi, Doctorate, N.Yıldırım(Student), 2016

BAYRAM M., Diferensiyel cebirsel ve kısmi türevli diferensiyel cebirsel denklemlerin nümerik çözümü, Postgraduate, M.Osmanoğlu(Student), 2016

BAYRAM M., Matris Teorisinin Biyokimyasal Kinetiğe Uygulaması, Postgraduate, H.Yetişkin(Student), 1998

BAYRAM M., Gröbner Bazı ve Uygulamaları, Postgraduate, E.Celik(Student), 1996

BAYRAM M., Çok Değişkenli Polinom Tipindeki Denklem Sistemlerinin Gröbner Bazı Metodu ile Çözümü ve Uygulamaları, Postgraduate, M.Güner(Student), 1996

- I. Optical solitons of stochastic perturbed Radhakrishnan-Kundu-Lakshmanan model with Kerr law of self-phase-modulation
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- II. Soliton solutions of the improved perturbed nonlinear Schrödinger equation having parabolic law with non-local nonlinearity in the presence of chromatic and spatio-temporal dispersion terms
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Physica Scripta, vol.99, no.4, 2024 (SCI-Expanded)
- III. High dispersion and cubic-quintic-septic-nonic nonlinearity effects on optical solitons in the complex Ginzburg-Landau equation of eighth-order with multiplicative white noise in the Itô sense
Zayed E. M., Arnous A. H., SEÇER A., ÖZİŞIK M., BAYRAM M., Shah N. A., Chung J. D.
Results in Physics, vol.58, 2024 (SCI-Expanded)
- IV. On obtaining optical solitons of the perturbed cubic-quartic model having the Kudryashov's law of refractive index
ÇINAR M., Cakicioglu H., SEÇER A., ÖZİŞIK M., BAYRAM M.
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- V. Davey-Stewartson system and investigation of the impacts of the nonlinearity
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- VI. Nonlinear complex generalized zakharov dynamical system inconformal sense utilizing new kudryashov method
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- VII. On soliton solutions for higher-order nonlinear Schrödinger equation with cubic-quintic-septic law
ESEN H., ÖNDER İ., SEÇER A., BAYRAM M.
International Journal of Geometric Methods in Modern Physics, vol.21, no.2, 2024 (SCI-Expanded)
- VIII. Bright soliton of the perturbed Schrödinger-Hirota equation with cubic-quintic-septic law of self-phase modulation in the presence of spatiotemporal dispersion
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- X. Investigation of soliton solutions to the Peyrard-Bishop-Deoxyribo-Nucleic-Acid dynamic model with beta-derivative
SEÇER A., ÖZİŞIK M., BAYRAM M., ÖZDEMİR N., ÇINAR M.
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- XI. A comprehensive analysis of Fokas-Lenells equation using Lie symmetry method
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- XII. Soliton solutions of time-fractional modified Korteweg-de-Vries Zakharov-Kuznetsov equation and modulation instability analysis
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- XIII. On obtaining analytical soliton solutions of Drinfeld-Sokolov-Satsuma-Hirota equation via two efficient methods
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- XIV. Retrieval of optical soliton solutions of stochastic perturbed Schrödinger-Hirota equation with Kerr law in the presence of spatio-temporal dispersion

- ÖZİŞIK M., SEÇER A., BAYRAM M.
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- XVI. **On the soliton solutions to the density-dependent space time fractional reaction-diffusion equation with conformable and M-truncated derivatives**
ESEN H., ÖZDEMİR N., SEÇER A., BAYRAM M., Sulaiman T. A., Ahmad H., Yusuf A., Albalwi M. D.
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- XVII. **Resonant NLSE in the presence of spatio-temporal and intermodal dispersion is dominated by a myriad of nonlinearities**
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- XX. **On soliton solutions of the modified equal width equation**
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- XXI. **Optical solitons of improved perturbed nonlinear Schrödinger equation with cubic-quintic-septic and triple-power laws in optical metamaterials**
ÇINAR M., Cakicioglu H., SEÇER A., ÖZİŞIK M., BAYRAM M.
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- XXVI. **Optical soliton solutions of (1+1)- and (2+1)-dimensional generalized Sasa-Satsuma equations using new Kudryashov method**
Çınar M., Secer A., Özışık M., Bayram M.
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- XXVII. **On the analytical soliton solutions of (1 + 1)-dimensional complex coupled nonlinear Higgs field model**
ÖZİŞIK M., BAYRAM M., SEÇER A., ÇINAR M.
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- XXVIII. **Two Analytical Schemes for the Optical Soliton Solution of the (2+1)-dimensional Kadomtsev-Petviashvili Equation**
 Ozdemir N., SEÇER A., ÖZİŞIK M., BAYRAM M.
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- XXIX. **Soliton solutions to the nonlinear higher dimensional Kadomtsev-Petviashvili equation through the new Kudryashov's technique**
 ESEN H., SEÇER A., ÖZİŞIK M., BAYRAM M.
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- XXX. **Analytical solutions of (2+1)-dimensional Calogero-Bogoyavlenskii-Schiff equation in fluid mechanics/plasma physics using the New Kudryashov method**
 ÇINAR M., SEÇER A., Bayram M.
PHYSICA SCRIPTA, vol.97, no.9, 2022 (SCI-Expanded)
- XXXI. **Derivation of optical solitons of dimensionless Fokas-Lenells equation with perturbation term using Sardar sub-equation method**
 ÇINAR M., SEÇER A., ÖZİŞIK M., Bayram M.
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- XXXIII. **Solitary wave solutions of chiral nonlinear Schrödinger equations**
 ESEN H., Ozdemir N., SEÇER A., Bayram M., Sulaiman T. A., Yusuf A.
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 Yigit G., Bayram M.
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- XXXV. **THE GENERALIZED GEGENBAUER-HUMBERTS WAVELET FOR SOLVING FRACTIONAL DIFFERENTIAL EQUATIONS**
 Alkhalissi J. H. S., EMİROĞLU İ., SEÇER A., Bayram M.
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- XXXVI. **Multiple response optimization of the effect of thyme essential oil against Listeria monocytogenes in ground meat at different times and temperatures**
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- XXXVII. **The common solution for a generalized equilibrium problem, a variational inequality problem and a hierarchical fixed point problem**
 Karahan I., Seçer A., Özdemir M., Bayram M.
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 Akinlar M. A., Seçer A., Bayram M.
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.8, pp.1633-1637, 2014 (SCI-Expanded)
- XL. **Stability, Synchronization Control and Numerical Solution of Fractional Shimizu-Morioka Dynamical System**
 Akinlar M. A., Seçer A., Bayram M.
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- XLI. **An approximate solution of fractional cable equation by homotopy analysis method**

- Inc M., Cavlak E., Bayram M.
BOUNDARY VALUE PROBLEMS, 2014 (SCI-Expanded)
- XLII. Special Issue on Recent Trends on Mathematics: Papers from the International conference on Applied Analysis and Algebra (ICAAA2011)**
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- XLIII. A Generalized q-Gruss Inequality Involving the Riemann-Liouville Fractional q-Integrals**
Seçer A., Purohit S. D., Selvakumaran K. A., Bayram M.
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- XLIV. Approximate Solution of Time-Fractional Advection-Dispersion Equation via Fractional Variational Iteration Method**
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- XLV. Convexity of Certain q-Integral Operators of p-Valent Functions**
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- XLVII. Recent Developments in Integral Transforms, Special Functions, and Their Extensions to Distributions Theory**
Kilicman A., BAYRAM M., Eltayeb H.
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- XLVIII. Approximates Method for Solving an Elasticity Problem of Settled of the Elastic Ground with Variable Coefficients**
Bayram M., YILDIRIM K.
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.7, no.4, pp.1351-1357, 2013 (SCI-Expanded)
- XLIX. A Numerical Method for Partial Differential Algebraic Equations Based on Differential Transform Method**
Osmanoglu M., Bayram M.
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- L. Coefficient Estimates and Other Properties for a Class of Spirallike Functions Associated with a Differential Operator**
ORHAN H., Raducanu D., Caglar M., Bayram M.
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- LI. New solutions of the nonlinear Fisher type equations by the reduced differential transform**
BAYRAM M., Yıldırım K., İbiş B.
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- LII. Efficient Variational Approaches for Deformable Registration of Images**
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- LIII. Some properties of the Mittag-Leffler functions and their relation with the Wright functions**
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- LV. Numerical comparison of methods for solving fractional differential-algebraic equations (FDEs)**
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- LVII. **Global Asymptotic Stability for a Fourth-Order Rational Difference Equation**
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- LXXXVI. **USING COMPUTER ALGEBRA TO DETERMINE RATE CONSTANTS IN BIOCHEMISTRY**
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Non Academic Experience

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