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Kişisel Bilgiler

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Biyografi

He completed his undergraduate education in 2001, his master's degree in 2004 and his doctorate in 2009. He was appointed as Assistant Professor in 2012, Associate Professor in 2014 and full Professor in 2020. He supervised 3 Master's theses and 3 Doctoral Thesis. He is currently continuing his 2 master's and 1 doctorate thesis advisory. His field of work is Analysis of Differential Equations by Lie Symmetry Analysis, Conservation Laws, Integrable Systems and Numerical Analysis of Differential Equations.

Eğitim Bilgileri

Doktora, Bursa Uludağ Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik (Dr), Türkiye 2005 - 2009

Yüksek Lisans, Bursa Uludağ Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik (YI) (Tezli), Türkiye 2001 - 2004

Lisans, Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, Matematik Bölümü, Türkiye 1997 - 2001

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Oluşum türü denklemlerin yerel ve yerel olmayan yeni korunum kanunları, 2009

Yüksek Lisans, Genelleştirilmiş Beltrami denklemleri için sınır-değer problemleri, 2004

Araştırma Alanları

Diferansiyel denklemler

Akademik Unvanlar / Görevler

Prof. Dr., Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2020 - Devam Ediyor
Doç. Dr., Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2014 - Devam Ediyor
Yrd. Doç. Dr., Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2011 - Devam Ediyor

Akademik İdari Deneyim

Bölüm Başkan Yardımcısı, Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2019 - Devam Ediyor
Anabilim/Bilim Dalı Başkanı, Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, MATEMATİK, 2019 - Devam Ediyor
Bursa Uludağ Üniversitesi, FEN-EDEBİYAT FAKÜLTESİ, Matematik Bölümü, 2012 - 2015

Verdiği Dersler

TEZ DANIŞMANLIĞI , Doktora, 2022 - 2023
Uygulamalı Matematiğin Metotları I, Lisans, 2022 - 2023
TEZ DANIŞMANLIĞI I , Yüksek Lisans, 2022 - 2023
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Uygulamalı Matematiğin Metotları II, Lisans, 2021 - 2022, 2019 - 2020
Yüksek Lisans Uzmanlık Alan Dersi I, Yüksek Lisans, 2022 - 2023
LİE GRUPLARI ve KORUNUM KANUNLARI I, Doktora, 2022 - 2023
Mühendislik Matematiği, Lisans, 2021 - 2022
DÖNÜŞÜM GRUPLARI ve LİE CEBİRLERİ II, Yüksek Lisans, 2021 - 2022
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Doktora Uzmanlık Alan Dersi, Doktora, 2022 - 2023
Diferensiyel Denklemler, Lisans, 2022 - 2023
KISMİ DİFERANSİYEL DENKLEMLER II, Yüksek Lisans, 2021 - 2022
UYGULAMALI MATEMATİĞİN METODLARI II, Lisans, 2021 - 2022
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İleri Kısmi Diferensiyel Denklemler, Doktora, 2020 - 2021

Yönetilen Tezler

Yaşar E., Lineer olmayan Schrödinger tipi denklemlerin analitik ve yak6 çözümlerinin elde edilmesi, Doktora, B.Koççasız(Öğrenci), 2024
Yaşar E., Oluşum tipi denklemlerin hirota bilineer formları ve etkileşim çözümleri, Yüksek Lisans, M.ZEYNEL(Öğrenci), 2023
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Jüri Üyelikleri

Akademik Kadroya Atama-Profesörlük, Akademik Kadroya Atama-Profesörlük, Bursa Uludağ Üniversitesi, Şubat, 2024
Akademik Kadroya Atama-Doçentlik, Akademik Kadroya Atama-Doçentlik, Bursa Uludağ Üniversitesi, Ocak, 2024
Doçentlik Sınavı, Doçentlik Sınavı, Bursa Uludağ Üniversitesi, Ekim, 2022
Doçentlik Sınavı, Doçentlik Sınavı, Bursa Uludağ Üniversitesi, Mart, 2022

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **EXACT WAVE SOLUTIONS AND LOCAL CONSERVATION LAWS OF A THIRD-ORDER BOUSSINESQ SYSTEM**
YAŞAR E., YAŞAR E.
DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES S, 2024 (SCI-Expanded)
- II. **On the qualitative behavior and numerical analysis of a calcium oscillation model through Atangana-Baleanu operator in Caputo sense**
YAŞAR E., YAŞAR E.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, 2024 (SCI-Expanded)
- III. **Solitonic structures and chaotic behavior in the geophysical Korteweg-de Vries equation: A μ -symmetry and $\langle i \rangle_g$ -expansion approach**
Kopcasiz B., Yasar E.
MODERN PHYSICS LETTERS B, 2024 (SCI-Expanded)
- IV. **On the comparative study for Klein-Fock-Gordon equation: Fractional exact solutions, bifurcation and sensitivity analysis**
Ay N. G., SAĞLAM ÖZKAN Y., YAŞAR E.
CHINESE JOURNAL OF PHYSICS, cilt.89, ss.453-468, 2024 (SCI-Expanded)
- V. **Exploration of interactional phenomena and multi-wave solutions of the fractional-order dual-mode nonlinear Schrödinger equation**
Yaşar E., Kopçasız B.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.47, sa.4, ss.2516-2534, 2024 (SCI-Expanded)
- VI. **Dual-mode nonlinear Schrödinger equation (DMNLSE): Lie group analysis, group invariant solutions, and conservation laws**
Yaşar E., Koçasız B.
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- VII. **THREE EFFICIENT SCHEMES AND HIGHLY DISPERSIVE OPTICAL SOLITONS OF PERTURBED FOKAS-LENELLS EQUATION IN STOCHASTIC FORM**
SAĞLAM ÖZKAN Y., YAŞAR E.
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- VIII. **Multi-wave, breather and interaction solutions to (3+1) dimensional sine-Gordon equation arising in nonlinear physical sciences**
Sağlam Özkan Y., Yaşar E., Masood Khaliq C.
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- IX. **The residual symmetry, Bäcklund transformations, CRE integrability and interaction solutions: (2+1)-dimensional Chaffee-Infante equation**
Günhan Ay N., Yaşar E.
COMMUNICATIONS IN THEORETICAL PHYSICS, cilt.75, sa.11, ss.1-8, 2023 (SCI-Expanded)
- X. **Adaptation of Caputo residual power series scheme in solving nonlinear time fractional Schrödinger equations**
Kopçasız B., YAŞAR E.
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- XI. **Novel dispersive soliton solutions to a fractional nonlinear Schrödinger equation related with**

ultrashort pulses

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- XII. **Propagation of dark-bright soliton and kink wave solutions of fluidized granular matter model arising in industrial applications**
Sağlam Özkan Y., Yaşar E.
INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, cilt.24, sa.2, ss.617-632, 2023 (SCI-Expanded)
- XIII. **Analytical soliton solutions of the fractional order dual-mode nonlinear Schrödinger equation with time-space conformable sense by some procedures**
Yaşar E., Kopçasız B.
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- XIV. **Multi wave, kink, breather, interaction solutions and modulation instability to a conformable third order nonlinear Schrödinger equation**
Günhan Ay N., YAŞAR E.
Optical and Quantum Electronics, cilt.55, sa.4, 2023 (SCI-Expanded)
- XV. **On the Lie symmetry analysis, analytic series solutions, and conservation laws of the time fractional Belousov-Zhabotinskii system**
SAN S., YAŞAR E.
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- XVI. **Optical soliton solution analysis for the (2+1) dimensional Kundu-Mukherjee-Naskar model with local fractional derivatives**
SAN S., Seadawy A. R., YAŞAR E.
OPTICAL AND QUANTUM ELECTRONICS, cilt.54, sa.7, 2022 (SCI-Expanded)
- XVII. **Novel multiple soliton and front wave solutions for the 3D-Vakhnenko-Parkes equation**
Sağlam Özkan Y., Yaşar E., Osman M. S.
MODERN PHYSICS LETTERS B, cilt.36, sa.09, 2022 (SCI-Expanded)
- XVIII. **Highly dispersive optical soliton molecules to dual-mode nonlinear Schrodinger wave equation in cubic law media**
Kopcasiz B., Seadawy A. R., YAŞAR E.
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- XIX. **A new (3+1) dimensional Hirota bilinear equation: Painlave integrability, Lie symmetry analysis, and conservation laws**
Gunhan Ay N., YAŞAR E.
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, cilt.16, sa.1, ss.1287-1297, 2022 (SCI-Expanded)
- XX. **Breather-type and multi-wave solutions for (2+1)-dimensional nonlocal Gardner equation**
Sağlam Özkan Y., Yaşar E.
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- XXI. **On the optical solitons and local conservation laws of Chen–Lee–Liu dynamical wave equation**
SAĞLAM ÖZKAN Y., Seadawy A. R., YAŞAR E.
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- XXII. **A model of solitary waves in a nonlinear elastic circular rod: Abundant different type exact solutions and conservation laws**
Çelik N., Seadawy A. R., Sağlam Özkan Y., Yaşar E.
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- XXIII. **Multi-wave, breather and interaction solutions to (3+1) dimensional Vakhnenko-Parkes equation arising at propagation of high-frequency waves in a relaxing medium**
Ozkan Y., Seadawy A. R., YAŞAR E.
JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, cilt.15, sa.1, ss.666-678, 2021 (SCI-Expanded)
- XXIV. **Multiwave and interaction solutions and Lie symmetry analysis to a new (2 + 1)-dimensional Sakovich equation**

SAĞLAM ÖZKAN Y., YAŞAR E.

Alexandria Engineering Journal, cilt.59, ss.5285-5293, 2020 (SCI-Expanded)

- XXV. **On the multi-waves, interaction and Peregrine-like rational solutions of perturbed Radhakrishnan-Kundu-Lakshmanan equation**
SAĞLAM ÖZKAN Y., YAŞAR E., Seadawy A. R.
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- XXVI. **A third-order nonlinear Schrodinger equation: the exact solutions, group-invariant solutions and conservation laws**
SAĞLAM ÖZKAN Y., YAŞAR E., Seadawy A. R.
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- XXVII. **On the exact solutions of nonlinear evolution equations by the improved tan(phi/2)-expansion method**
SAĞLAM ÖZKAN Y., YAŞAR E.
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- XXVIII. **The Logarithmic (1+1)-Dimensional KdV-Like and (2+1)-Dimensional KP-Like Equations: Lie Group Analysis, Conservation Laws and Double Reductions**
Giresunlu I. B., YAŞAR E., Adem A. R.
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- XXIX. **Extended Transformed Rational Function Method to Nonlinear Evolution Equations**
YAŞAR E., Yildirim Y., Adem A. R.
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- XXX. **Optical soliton perturbation in parabolic law medium having weak non-local nonlinearity by a couple of strategic integration architectures**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Alshomrani A. S., Belic M.
RESULTS IN PHYSICS, cilt.13, 2019 (SCI-Expanded)
- XXXI. **Resonant optical soliton perturbation with full nonlinearity and time-dependent coefficients by trial equation method**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moraru L., Alshomrani A. S., Belic M. R.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, cilt.21, ss.213-221, 2019 (SCI-Expanded)
- XXXII. **Complexiton solutions and soliton solutions: -dimensional Date-Jimbo-Kashiwara-Miwa equation**
Adem A. R., Yildirim Y., YAŞAR E.
PRAMANA-JOURNAL OF PHYSICS, cilt.92, sa.3, 2019 (SCI-Expanded)
- XXXIII. **Soliton solutions to the non-local Boussinesq equation by multiple exp-function scheme and extended Kudryashov's approach**
Adem A. R., Yildirim Y., YAŞAR E.
PRAMANA-JOURNAL OF PHYSICS, cilt.92, sa.2, 2019 (SCI-Expanded)
- XXXIV. **Optical soliton molecules in birefringent fibers having weak non-local nonlinearity and four-wave mixing with a couple of strategic integration architectures**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Khan S., Adesanya S., Moshokoa S. P., Belic M.
OPTIK, cilt.179, ss.927-940, 2019 (SCI-Expanded)
- XXXV. **Optical solitons in birefringent fibers with weak non-local nonlinearity using two forms of integration architecture**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Alfiras M., Belic M.
OPTIK, cilt.178, ss.669-680, 2019 (SCI-Expanded)
- XXXVI. **Optical soliton perturbation with quadratic-cubic nonlinearity using a couple of strategic algorithms**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
CHINESE JOURNAL OF PHYSICS, cilt.56, sa.5, ss.1990-1998, 2018 (SCI-Expanded)
- XXXVII. **Optical soliton perturbation with full nonlinearity in polarization preserving fibers using trial equation method**

- Biswas A., Yildirim Y., YAŞAR E., Triki H., Zhou Q., Moshokoa S. P., Ullah M. Z., Belic M.
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- XXXVIII. **New optical solitons of space-time conformable fractional perturbed Gerdjikov-Ivanov equation by sine-Gordon equation method**
 YAŞAR E., Yildirim Y., YAŞAR E.
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- XXXIX. **Solitons for perturbed Gerdjikov-Ivanov equation in optical fibers and PCF by extended Kudryashov's method**
 Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Alshomrani A. S., Moshokoa S. P., Belic M.
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- XL. **Conservation laws for perturbed solitons in optical metamaterials**
 Biswas A., YAŞAR E., Yildirim Y., Triki H., Zhou Q., Moshokoa S. P., Belic M.
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- XLI. **A (2+1)-dimensional breaking soliton equation: Solutions and conservation laws**
 Yildirim Y., YAŞAR E.
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- XLII. **Optical soliton perturbation with resonant nonlinear Schrodinger's equation having full nonlinearity by modified simple equation method**
 Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
 OPTIK, cilt.160, ss.33-43, 2018 (SCI-Expanded)
- XLIII. **Dispersive optical solitons with differential group delay by a couple of integration schemes**
 Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Alshomrani A. S., Moshokoa S. P., Belic M.
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- XLIV. **Optical soliton perturbation with full nonlinearity by trial equation method**
 Biswas A., Yildirim Y., YAŞAR E., Triki H., Alshomrani A. S., Ullah M. Z., Zhou Q., Moshokoa S. P., Belic M.
 OPTIK, cilt.157, ss.1366-1375, 2018 (SCI-Expanded)
- XLV. **Optical solitons and conservation law of Kundu-Eckhaus equation**
 Mirzazadeh M., Yildirim Y., YAŞAR E., Triki H., Zhou Q., Moshokoa S. P., Ullah M. Z., Seadawy A. R., Biswas A., Belic M.
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- XLVI. **Optical solitons with differential group delay by trial equation method**
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- XLVII. **Optical soliton perturbation with Gerdjikov-Ivanov equation by modified simple equation method**
 Biswas A., Yildirim Y., YAŞAR E., Triki H., Alshomrani A. S., Ullah M. Z., Zhou Q., Moshokoa S. P., Belic M.
 OPTIK, cilt.157, ss.1235-1240, 2018 (SCI-Expanded)
- XLVIII. **Sub pico-second pulses in mono-mode optical fibers with Kaup-Newell equation by a couple of integration schemes**
 Biswasa A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
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- XLIX. **Dispersive optical solitons with Schrodinger-Hirota model by trial equation method**
 Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Alshomrani A. S., Moshokoa S. P., Belic M.
 OPTIK, cilt.162, ss.35-41, 2018 (SCI-Expanded)
- L. **Optical solitons with differential group delay for coupled Fokas-Lenells equation using two integration schemes**
 Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Mahmood M. F., Moshokoa S. P., Belic M.
 OPTIK, cilt.165, ss.74-86, 2018 (SCI-Expanded)
- LI. **Optical soliton perturbation with full nonlinearity for Kundu-Eckhaus equation by modified simple equation method**
 Biswas A., Yildirim Y., YAŞAR E., Triki H., Alshomrani A. S., Ullah M. Z., Zhou Q., Moshokoa S. P., Belic M.
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- LII. **LIE SYMMETRY ANALYSIS AND EXACT SOLUTIONS TO N-COUPLED NONLINEAR SCHRODINGER'S**

EQUATIONS WITH KERR AND PARABOLIC LAW NONLINEARITIES

Yildirim Y., YAŞAR E., Triki H., Zhou Q., Moshokoa S. P., Ullah M. Z., Biswas A., Belic M.
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- LIII. **Perturbed optical solitons with spatio-temporal dispersion in (2+1) -dimensions by extended Kudryashov method**
YAŞAR E., Yildirim Y., Adem A. R.
OPTIK, cilt.158, ss.1-14, 2018 (SCI-Expanded)
- LIV. **Optical soliton perturbation with complex Ginzburg-Landau equation using trial solution approach**
Biswas A., Yildirim Y., YAŞAR E., Triki H., Alshomrani A. S., Ullah M. Z., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, cilt.160, ss.44-60, 2018 (SCI-Expanded)
- LV. **Optical solitons for Lakshmanan-Porsezian-Daniel model by modified simple equation method**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
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- LVI. **Optical solitons with differential group delay and four-wave mixing using two integration procedures**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
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- LVII. **Optical soliton perturbation with full nonlinearity for Gerdjikov-Ivanov equation by trial equation method**
Biswas A., Yildirim Y., YAŞAR E., Triki H., Alshomrani A. S., Ullah M. Z., Zhou Q., Moshokoa S. P., Belic M.
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- LVIII. **Optical solitons for Lakshmanan-Porsezian-Daniel model with dual-dispersion by trial equation method**
Biswas A., Yildirim Y., YAŞAR E., Alqahtani R. T.
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- LIX. **Optical soliton perturbation for Radhakrishnan-Kundu-Lakshmanan equation with a couple of integration schemes**
Biswas A., Yildirim Y., YAŞAR E., Mahmood M. F., Alshomrani A. S., Zhou Q., Moshokoa S. P., Belic M.
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- LX. **Optical soliton perturbation for complex Ginzburg-Landau equation with modified simple equation method**
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- LXI. **Optical soliton solutions to Fokas-Ienells equation using some different methods**
Biswas A., Yildirim Y., YAŞAR E., Zhou Q., Moshokoa S. P., Belic M.
OPTIK, cilt.173, ss.21-31, 2018 (SCI-Expanded)
- LXII. **An extended Korteweg-de Vries equation: multi-soliton solutions and conservation laws**
Yildirim Y., YAŞAR E.
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- LXIII. **Perturbed dark and singular optical solitons in polarization preserving fibers by modified simple equation method**
YAŞAR E., Yildirim Y., Zhou Q., Moshokoa S. P., Ullah M. Z., Triki H., Biswas A., Belic M.
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- LXIV. **A multiple exp-function method for the three model equations of shallow water waves**
Yildirim Y., YAŞAR E., Adem A. R.
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- LXV. **Multiple exp-function method for soliton solutions of nonlinear evolution equations**
Yildirim Y., YAŞAR E.
CHINESE PHYSICS B, cilt.26, sa.7, 2017 (SCI-Expanded)
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