Prof. DOĞAN KAYA

Personal Information

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Education Information

Doctorate, University of Newcastle Upon Tyne, Science Institute, Department of Computing Science, England 1992 - 1995 Postgraduate, Firat University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Turkey 1988 - 1990 Undergraduate, Van Yüzüncü Yil University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1984 - 1988

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Parallel Algorithms for Linear Algebra on a Shared Memory Multiprocessor, University of Newcastle Upon Tyne, Science Institute, Department of Computing Science, 1995 Postgraduate, Lineer olamayan differensiyel denklemler, Firat University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), 1990

Research Areas

Computer Science, Natural Sciences

Academic Titles / Tasks

Professor, Istanbul Commerce University, İnsan ve Toplum Bilimleri Fakültesi, Matematik Bölümü, 2011 - Continues Professor, Firat University, Fen Fakültesi, Matematik Bölümü, 2006 - 2011 Associate Professor, Firat University, Fen Fakültesi, Matematik Bölümü, 2000 - 2006 Assistant Professor, Firat University, Fen Fakültesi, Matematik Bölümü, 1995 - 2000 Research Assistant, University of Newcastle Upon Tyne, SCIENCE, DEPARTMENT OF COMPUTING SCIENCE, 1991 - 1995

Academic and Administrative Experience

Head of Department, Istanbul Commerce University, İnsan Ve Toplum Bilimleri Fakültesi, Matematik Bölümü, 2022 -Continues Director of The Institution, Istanbul Commerce University, Fen Bilimleri Enstitüsü, 2022 - 2024 Director of The Institution, Istanbul Commerce University, Fen Bilimleri Enstitüsü, 2014 - 2017 Head of Department, Istanbul Commerce University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2011 - 2014 Vice Rector, Ardahan University, 2008 - 2010 Dean, Ardahan University, Mühendislik Fakültesi, 2008 - 2010

Deputy Head of Department, Firat University, Fen Fakültesi, Matematik Bölümü, 2002 - 2005

Courses

BİTİRME PROJESİ, Undergraduate, 2023 - 2024 Differential Equations 2, Undergraduate, 2023 - 2024 Business Mathematics 2, Undergraduate, 2023 - 2024 Artificial neural networks, Undergraduate, 2023 - 2024 Computer Programming 2, Undergraduate, 2023 - 2024 Differential Equations 1, Undergraduate, 2023 - 2024, 2022 - 2023 Nümerik Analiz 1, Undergraduate, 2023 - 2024 Kariyer Planlama, Undergraduate, 2023 - 2024 Computer Programming I, Undergraduate, 2023 - 2024 Business Mathematics 1, Undergraduate, 2023 - 2024 Diferensiyel Denklemler I ve II, Undergraduate, 2022 - 2023, 2012 - 2013, 2011 - 2012 KISMİ DİFERANSİYEL DENKLEMLER, Undergraduate, 2021 - 2022 Lineer Cebir 1 ve 2, Undergraduate, 2021 - 2022 Mathematics 1 and 2, Undergraduate, 2021 - 2022 Matematik 1 ve 2, Undergraduate, 2021 - 2022 ENGINEERING MATHEMATICS I and II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019 Mathematical Analysis I ve II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2013 - 2014, 2012 -2013, 2011 - 2012 Mühendislik Matematiği I ve II, Undergraduate, 2020 - 2021 Lineer Cebir 1, Undergraduate, 2019 - 2020 Random Process, Postgraduate, 2017 - 2018 Rastgele Süreç, Undergraduate, 2017 - 2018 ENGINEERING MATHEMATICS II, Undergraduate, 2016 - 2017 ENGINEERING MATHEMATICS I, Undergraduate, 2016 - 2017 MATHEMATICS II, Undergraduate, 2016 - 2017 Kısmi Diferansiyel Denklemler İçin Sonlu Elemanlar Yöntemi, Doctorate, 2016 - 2017 Mathematical Analysis I, Undergraduate, 2016 - 2017 Mathematical Analysis II, Undergraduate, 2016 - 2017 Mühendislikte Sonlu Elemanlar Yöntemi, Doctorate, 2016 - 2017 SEMINAR, Postgraduate, 2016 - 2017 MATHEMATICS I, Undergraduate, 2016 - 2017 Nümerik Analiz, Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012 Differential Equation , Undergraduate, 2012 - 2013 Nümerik Analiz, Undergraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 -2005, 2003 - 2004, 2002 - 2003, 2000 - 2001 Lineer Olmayan Diferensiyel Denklemler, Doctorate, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003,

Advising Theses

DOĞAN K., Başlangıç ve sınır koşullarına sahip bazı lineer olmayan kısmi diferansiyel denklemler için simetri analizi, Doctorate, G.İSKENDEROĞLU(Student), 2020

DOĞAN K., İntegrallenebilir denklemler için soliton çözümler ve uygulamaları, Postgraduate, B.KUTLU(Student), 2015 DOĞAN K., Bazı lineer olmayan kısmi diferansiyel denklemlerin özel dönüşümler yardımıyla dalga çözümleri ve bu çözümlerin analizleri, Doctorate, S.DURAN(Student), 2012

DOĞAN K., Lineer olmayan kısmi diferensiyel denklemlerin hareket eden dalga çözümleri için bazı metotlar ve çözümlerin sayısal analizleri, Doctorate, B.KILIÇ(Student), 2012

DOĞAN K., Bazı özel lineer olmayan diferensiyel denklemlerin çözümlerinin elde edilmesi ve bu çözümlerin karşılaştırılması, Doctorate, A.YOKUŞ(Student), 2011

DOĞAN K., Bazı lineer olmayan kısmi diferensiyel denklemlerin periyodik dalga çözümleri, Doctorate, Y.UĞURLU(Student), 2010

DOĞAN K., Lineer ve lineer olmayan diferensiyel denklemlerin sayısal çözümlerinin elde edilmesi ve elde edilen sonuçların irdelenmesi, Postgraduate, Z.SARIATEŞ(Student), 2010

DOĞAN K., Diferansiyel denklemlerin çözümlerinin asimptotik davranışı va kararlılığı, Postgraduate, S.DURAN(Student), 2006

DOĞAN K., Difüzyon denklemlerin çözümlerinin patlaması, Postgraduate, Y.UĞURLU(Student), 2005

DOĞAN K., Doğrusal olmayan parabolik veya hiperbolik diferansiyel denklemlerde global çözümlerin yokluğu (blow up), Doctorate, N.POLAT(Student), 2005

DOĞAN K., Kısmi diferansiyal denklemler için bazı yaklaşım metodları ve uygulamaları, Doctorate, İ.ENAM(Student), 2004 DOĞAN K., Kısmi diferensiyel denklemlerin çözümlerinin azalması ve kararlılığı, Postgraduate, T.BAKİ(Student), 2003

DOĞAN K., Başlangıç ve sınır değer problemlerinin seriler yardımı ile çözümleri, Postgraduate, S.ÇİÇEK(Student), 2002 DOĞAN K., Burgers denkleminin sayısal çözümlerinin karşılaştırılması üzerine bir çalışma, Postgraduate,

A.YOKUŞ(Student), 2002

DOĞAN K., Lineer cebirsel denklem sistemlerinin sayısal çözümleri ve bu çözümlerin sayısal irdelenmesi, Postgraduate, İ.ENAM(Student), 1999

DOĞAN K., Kısmi diferansiyel denklemlerin analitik çözümleri ve sayısal çözümlerinin karşılaştırılması, Postgraduate, T.TUTAK(Student), 1999

Jury Memberships

Associate Professor Exam, Associate Professor Exam, May, 2024

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Yıldız Teknik Üniversitesi, January, 2024

Associate Professor Exam, Associate Professor Exam, Eskişehir Osmangazi Üniversitesi, December, 2023

Associate Professor Exam, Associate Professor Exam, GAZIANTEP ÜNİVERSİTESİI, October, 2023

Associate Professor Exam, Associate Professor Exam, BAHÇESEHIR ÜNIVERSITESI, October, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

 I. An expansion method for generating travelling wave solutions for the (2 + 1)-dimensional Bogoyavlensky-Konopelchenko equation with variable coefficients Yokuş A., Duran S., KAYA D.

Chaos, Solitons and Fractals, vol.178, 2024 (SCI-Expanded)

II. Application of some nonclassical methods for p-defocusing complex Klein-Gordon equation

Yokus A., İSKENDEROĞLU G., KAYA D.

Optical and Quantum Electronics, vol.55, no.5, 2023 (SCI-Expanded)

III. Chirped self-similar pulses and envelope solutions for a nonlinear Schrödinger's in optical fibers using Lie group method
 iSKENDEROĞLU G., KAYA D.
 Chaos, Solitons and Fractals, vol.162, 2022 (SCI-Expanded)
 IV. Refraction simulation of internal solitary waves for the fractional Benjamin-Ono equation in fluid

IV. Refraction simulation of internal solitary waves for the fractional Benjamin-Ono equation in fluid dynamics

Duran S., Yokuş A., Durur H., KAYA D.

Modern Physics Letters B, vol.35, no.26, 2021 (SCI-Expanded)

V. Breaking analysis of solitary waves for the shallow water wave system in fluid dynamics Duran S., KAYA D.

European Physical Journal Plus, vol.136, no.9, 2021 (SCI-Expanded)

VI. Comparison exact and numerical simulation of the traveling wave solution in nonlinear dynamics Yokus A., KAYA D.

International Journal of Modern Physics B, vol.34, no.29, 2020 (SCI-Expanded)

VII. Role of Gilson-Pickering equation for the different types of soliton solutions: a nonlinear analysis Yokuş A., Durur H., Abro K. A., KAYA D.

European Physical Journal Plus, vol.135, no.8, 2020 (SCI-Expanded)

- VIII. Symmetry analysis of initial and boundary value problems for fractional differential equations in Caputo sense
 - İSKENDEROĞLU G., KAYA D.

Chaos, Solitons and Fractals, vol.134, 2020 (SCI-Expanded)

IX. Lie group analysis for initial and boundary value problem of time-fractional nonlinear generalized KdV partial differential equation

KAYA D., İSKENDEROĞLU G.

Turkish Journal of Mathematics, vol.43, no.3, pp.1263-1275, 2019 (SCI-Expanded)

- X. Solutions of the fractional combined KdV-mKdV equation with collocation method using radial basis function and their geometrical obstructions
 KAYA D., Gülbahar S., Yokuş A., Gülbahar M.
 Advances in Difference Equations, vol.2018, no.1, 2018 (SCI-Expanded)
- XI. Numerical solutions of the Fractional Kdv-Burgers-Kuramoto equation KAYA D., Gulbahar S., Yokus A. Thermal Science, vol.22, 2018 (SCI-Expanded)
- XII. Comparison of three semi-analytical methods for solving (1+1)-dimensional dispersive long wave equations

Ugurlu Y., KAYA D., Inan I. E.

Computers and Mathematics with Applications, vol.61, no.5, pp.1278-1290, 2011 (SCI-Expanded)

XIII. Reply to Comment on 'Exact solutions to the various nonlinear evolution equations' KAYA D., Inan I. E.

Physica Scripta, vol.83, no.1, 2011 (SCI-Expanded)

XIV. Auto-Bäcklund transformation and similarity reductions for coupled Burger's equation Inan I. E., KAYA D., Ugurlu Y.

Applied Mathematics and Computation, vol.216, no.9, pp.2507-2511, 2010 (SCI-Expanded)

XV. Exact solutions to the various nonlinear evolution equations

KAYA D., Inan I. E.

Physica Scripta, vol.79, no.4, 2009 (SCI-Expanded)

XVI. Application of new triangular functions to nonlinear partial differential equations Abdel-Salam E. A., KAYA D.

Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, vol.64, no.1-2, pp.1-7, 2009 (SCI-Expanded)

XVII. Existence, asymptotic behaviour, and blow up of solutions for a class of nonlinear wave equations

| | with dissipative and dispersive terms |
|---------------|--|
| | Polat N., KAYA D. |
| | Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, vol.64, no.5-6, pp.315-326, 2009 (SCI- |
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| XVIII. | Solutions of the Cahn-Hilliard equation |
| | Ugurlu Y., KAYA D. |
| | Computers and Mathematics with Applications, vol.56, no.12, pp.3038-3045, 2008 (SCI-Expanded) |
| XIX. | Exact and numerical solutions of generalized Drinfeld-Sokolov equations |
| | Ugurlu Y., KAYA D. |
| | Physics Letters, Section A: General, Atomic and Solid State Physics, vol 372, no 16, nn 2867-2873, 2008 (SCI- |
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| xx | Analytic method for solitary solutions of some partial differential equations |
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| | Physics Letters Section A: General Atomic and Solid State Physics vol 370 no 3-4 nn 251-259 2007 (SCI- |
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| | Indii I. E., KATA D. Devices A. Statistical Mashanics and its Applications val 201 no. 1.2 np. 104.115, 2007 (SCI Evmanded) |
| VVII | A numerical companies of a Keyehana constinu |
| AAII . | |
| | NATA D., Al-Mialeu N. |
| | Physics Letters, Section A: General, Atomic and Solid State Physics, Vol.363, no.5-6, pp.433-439, 2007 (Sui- |
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| XXIII. | A analytic and numerical solution to a modified Kawanara equation and a convergence analysis of |
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| | Polat N., KAYA D., Tutalar H. I. |
| XXII 7 | Applied Mathematics and Computation, vol.181, no.1, pp.193-199, 2006 (SCI-Expanded) |
| AAIV. | A analytic and numerical solution to a modified Kawanara equation and a convergence analysis of |
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| | Polat N., KATA D., Tutalar H. I. |
| V V17 | Applied Mathematics and Computation, vol.179, no.2, pp.466-472, 2006 (SCI-Expanded) |
| XXV. | Some exact solutions to the potential kadomtsev-Petviashvill equation and to a system of shallow |
| | water wave equations |
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| | Physics Letters, Section A: General, Atomic and Solid State Physics, vol.355, no.4-5, pp.314-318, 2006 (SCI- |
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| XXVI. | A numerical solution and an exact explicit solution of the NLS equation |
| | El-Sayed S. M., KATA D. |
| VV 111 | Applied Mathematics and Computation, vol.1/2, no.2 SPEC. ISS., pp.1315-1322, 2006 (SCI-Expanded) |
| XX V 11. | The exact and numerical solitary-wave solutions for generalized modified Boussinesq equation |
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| | Physics Letters, Section A: General, Atomic and Solid State Physics, vol.348, no.3-6, pp.244-250, 2006 (SCI- |
| | Expanded) |
| XXVIII. | Blow up of solution for the generalized Boussinesq equation with damping term |
| | Polat N., KAYA D. |
| | Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, vol.61, no.5-6, pp.235-238, 2006 (SCI- |
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| XXIX. | A numerical implementation of the decomposition method for the Lienard equation |
| | KAYA D., El-Sayed S. M. |
| | Applied Mathematics and Computation, vol.171, no.2, pp.1095-1103, 2005 (SCI-Expanded) |
| XXX. | An application for a modified KdV equation by the decomposition method and finite element method |
| | Geyikli T., KAYA D. |

| | Applied Mathematics and Computation, vol.169, no.2, pp.971-981, 2005 (SCI-Expanded) |
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| XXXI. | Parallel algorithms for reduction of a symmetric matrix to tridiagonal form on a shared memory |
| | multiprocessor |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.169, no.2, pp.1045-1062, 2005 (SCI-Expanded) |
| XXXII. | Comparison of the solutions obtained by B-spline FEM and ADM of KdV equation |
| | Gevikli T., KAYA D. |
| | Applied Mathematics and Computation, vol.169, no.1, pp.146-156, 2005 (SCI-Expanded) |
| XXXIII. | A numerical application of the decomposition method for the combined KdV-MKdV equation |
| | KAYA D., Inan I. E. |
| | Applied Mathematics and Computation, vol.168, no.2, pp.915-926, 2005 (SCI-Expanded) |
| XXXIV. | Exact and numerical traveling wave solutions of Whitham-Broer-Kaup equations |
| | El-Saved S. M., KAYA D. |
| | Applied Mathematics and Computation, vol.167, no.2, pp.1339-1349, 2005 (SCI-Expanded) |
| XXXV. | An implementation of the ADM for generalized one-dimensional Klein-Gordon equation |
| | KAYA D. |
| | Applied Mathematics and Computation vol 166 no 2 nn 426-433 2005 (SCI-Expanded) |
| XXXVI | On experimental results and explicit exact solutions for the generalized Boussinesa type equation |
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| | Applied Mathematics and Computation vol 165 no 2 nn 303-311 2005 (SCI-Expanded) |
| XXXVII | Parallel algorithms for reduction of a general matrix to unner Hessenberg form on a shared memory |
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| | KAVA D. Wright K |
| | Applied Mathematics and Computation, vol 165, no 1, pp 195-212, 2005 (SCI-Expanded) |
| xxxviii | A decomposition method for finding solitary and periodic solutions for a coupled higher- |
| | dimensional Burgers equations |
| | KAYA D., Yokus A. |
| | Applied Mathematics and Computation, vol.164, no.3, pp.857-864, 2005 (SCI-Expanded) |
| XXXIX. | Parallel algorithms for LU decomposition on a shared memory multiprocessor |
| | KAYA D., Wright K. |
| | Applied Mathematics and Computation, vol.163, no.1, pp.179-191, 2005 (SCI-Expanded) |
| XL. | The symmetric tridiagonal eigenproblem on a shared memory multiprocessor: Part II |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.163, no.1, pp.213-244, 2005 (SCI-Expanded) |
| XLI. | Blow-up of solutions for the damped Boussinesg equation |
| | Polat N., KAYA D., Tutalar H. I. |
| | Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, vol.60, no.7, pp.473-476, 2005 (SCI- |
| | Expanded) |
| XLII. | An experience using different synchronisation mechanisms on a shared memory multiprocessors |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.161, no.3, pp.1027-1036, 2005 (SCI-Expanded) |
| XLIII. | A convergence analysis of the ADM and an application |
| | KAYA D., Inan I. E. |
| | Applied Mathematics and Computation, vol.161, no.3, pp.1015-1025, 2005 (SCI-Expanded) |
| XLIV. | An application of the modified decomposition method for two dimensional sine-Gordon equation |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.159, no.1, pp.1-9, 2004 (SCI-Expanded) |
| XLV. | An application of the decompositionmethod for the two-dimensional KdV-Burgers equation |
| | KAYA D. |
| | Computers and Mathematics with Applications, vol.48, no.10-11, pp.1659-1665, 2004 (SCI-Expanded) |
| XLVI. | On the numerical solution of the system of two-dimensional Burgers' equations by the |
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| | decomposition method |
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| | El-Sayed S. M., KAYA D. |
| | Applied Mathematics and Computation, vol.158, no.1, pp.101-109, 2004 (SCI-Expanded) |
| XLVII. | Numerical comparison of methods for solving parabolic equations |
| | Al-Khaled K., KAYA D., Noor M. A. |
| | Applied Mathematics and Computation, vol.157, no.3, pp.735-743, 2004 (SCI-Expanded) |
| XLVIII. | The decomposition method for solving $(2 + 1)$ -dimensional Boussinesq equation and $(3 + 1)$ - |
| | dimensional KP equation |
| | El-Sayed S. M., KAYA D. |
| | Applied Mathematics and Computation, vol.157, no.2, pp.523-534, 2004 (SCI-Expanded) |
| XLIX. | An application of the ADM to seven-order Sawada-Kotara equations |
| | El-Sayed S. M., KAYA D. |
| | Applied Mathematics and Computation, vol.157, no.1, pp.93-101, 2004 (SCI-Expanded) |
| L. | A numerical solution of the Klein-Gordon equation and convergence of the decomposition method |
| | KAYA D., El-Sayed S. M. |
| | Applied Mathematics and Computation, vol.156, no.2, pp.341-353, 2004 (SCI-Expanded) |
| LI. | A reliable method for the numerical solution of the kinetics problems |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.156, no.1, pp.261-270, 2004 (SCI-Expanded) |
| LII. | The symmetric tridigonal eigenproblem on a shared memory multiprocessor: Part I |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.156, no.1, pp.189-209, 2004 (SCI-Expanded) |
| LIII. | Adomian's decomposition method applied to systems of nonlinear algebraic equations |
| | KAYA D., El-Sayed S. M. |
| 1 117 | Applied Mathematics and Computation, vol.154, no.2, pp.487-493, 2004 (SCI-Expanded) |
| LIV. | Series solution to the Pochnammer-Unree equation and comparison with exact solutions |
| | Snawagien N., KATA D. |
| IV | Computers and Mathematics with Applications, vol.47, no.12, pp.1915-1920, 2004 (Sci-Expanded) |
| LV. | ALSAID F. A. Noor M. A. KAYA D. Al-Khaled K |
| | International Journal of Computer Mathematics vol 81, no 6, pp 741-748, 2004 (SCI-Expanded) |
| LVL | Solitary-wave solutions for compound KdV-type and compound KdV-Burgers-type equations with |
| | nonlinear terms of any order |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.152, no.3, pp.709-720, 2004 (SCI-Expanded) |
| LVII. | Exact and numerical soliton solutions of some nonlinear physical models |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.152, no.2, pp.551-560, 2004 (SCI-Expanded) |
| LVIII. | A numerical simulation and explicit solutions of the generalized Burgers-Fisher equation |
| | KAYA D., El-Sayed S. M. |
| | Applied Mathematics and Computation, vol.152, no.2, pp.403-413, 2004 (SCI-Expanded) |
| LIX. | An application of the decomposition method for the KdVB equation |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.152, no.1, pp.279-288, 2004 (SCI-Expanded) |
| LX. | Exact and numerical traveling wave solutions for nonlinear coupled equations using symbolic |
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| | KAYA D., Inan I. E. |
| | Applied Mathematics and Computation, vol.151, no.3, pp.775-787, 2004 (SCI-Expanded) |
| LXI. | Comparing numerical methods for Helmholtz equation model problem |
| | El-Sayed S. M., KAYA D. |
| | Applied Mathematics and Computation, vol.150, no.3, pp.763-773, 2004 (SCI-Expanded) |

| LXII. | A numerical simulation of solitary-wave solutions of the generalized regularized long-wave equation KAYA D. |
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| | Applied Mathematics and Computation, vol.149, no.3, pp.833-841, 2004 (SCI-Expanded) |
| LXIII. | Solitary wave solutions for a generalized Hirota-Satsuma coupled KdV equation |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.147, no.1, pp.69-78, 2004 (SCI-Expanded) |
| LXIV | The decomposition method applied to solve high-order linear Volterra-Fredholm integro-differential |
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| | Ersayeu S. M., KATA D., Zarea S. |
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| LAV. | Comparing numerical methods for the solutions of systems of ordinary differential equations |
| | Snawagien N., KATA D. |
| | Applied Mathematics Letters, vol.17, no.3, pp.323-328, 2004 (Sci-Expanded) |
| LXVI. | Numerical soliton-like solutions of the potential Kadomtsev-Petviashvili equation by the |
| | decomposition method |
| | KAYA D., El-Sayed S. M. |
| | Physics Letters, Section A: General, Atomic and Solid State Physics, vol.320, no.2-3, pp.192-199, 2003 (SCI- |
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| LXVII. | A numerical method for solving Jaulent-Miodek equation |
| | KAYA D., El-Sayed S. M. |
| | Physics Letters, Section A: General, Atomic and Solid State Physics, vol.318, no.4-5, pp.345-353, 2003 (SCI- |
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| LXVIII. | A numerical solution of the sine-Gordon equation using the modified decomposition method |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.143, no.2-3, pp.309-317, 2003 (SCI-Expanded) |
| LXIX. | An explicit and numerical solutions of some fifth-order KdV equation by decomposition method |
| | KAYA D. |
| | Applied Mathematics and Computation, vol.144, no.2-3, pp.353-363, 2003 (SCI-Expanded) |
| LXX. | On the solution of the coupled Schrödinger-KdV equation by the decomposition method |
| | KAYA D., El-Sayed S. M. |
| | Physics Letters, Section A: General, Atomic and Solid State Physics, vol.313, no.1-2, pp.82-88, 2003 (SCI-Expanded) |
| LXXI. | On a generalized fifth order KdV equations |
| | KAYA D., El-Sayed S. M. |
| | Physics Letters, Section A: General, Atomic and Solid State Physics, vol.310, no.1, pp.44-51, 2003 (SCI-Expanded) |
| LXXII. | An application of the decomposition method for the generalized KdV and RLW equations |
| | KAYA D., El-Sayed S. M. |
| | Chaos, Solitons and Fractals, vol.17, no.5, pp.869-877, 2003 (SCI-Expanded) |
| LXXIII. | A numerical comparison of partial solutions in the decomposition method for linear and nonlinear |
| | partial differential equations |
| | KAYA D., Yokus A. |
| | Mathematics and Computers in Simulation, vol.60, no.6, pp.507-512, 2002 (SCI-Expanded) |
| LXXIV. | An application for a generalized KdV equation by the decomposition method |
| | KAYA D., Aassila M. |
| | Physics Letters, Section A: General, Atomic and Solid State Physics, vol.299, no.2-3, pp.201-206, 2002 (SCI- |
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| LXXV. | The use of Adomian decomposition method for solving a specific nonlinear partial differential |
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