

بسم الله الرحمن الرحيم
"وقل رب زدني علما"
سيرة ذاتية



البيانات الشخصية:

الاسم: يسري محمد عثمان
الديب

Yusry O. El-Dib

الجنسية: مصري

الدرجة العلمية: أستاذ

التخصص العام: رياضيات تطبيقية

التخصص الدقيق: ميكانيكا الموائع

الحالة الاجتماعية: متزوج

مكان العمل: قسم الرياضيات - كلية التربية - جامعة عين شمس - جمهورية مصر العربية
الوظيفة: استاذ متفرغ بقسم الرياضيات- كلية التربية - جامعة عين شمس.
-عنوان المراسلة (بالقاهرة): قسم الرياضيات- كلية التربية - جامعة عين شمس- روكسي -
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المؤهلات العلمية:

الدرجة العلمية	تاريخ الحصول علي الدرجة	التخصص العام	التخصص الدقيق	الكلية	الجامعة
البكالوريوس	1975	رياضيات	رياضيات	التربية	عين شمس - مصر
البكالوريوس	1980	رياضيات	رياضيات	العلوم	عين شمس - مصر
المستير	1984	رياضيات تطبيقية	ميكانيكا الموائع	العلوم	عين شمس - مصر
الدوراه	1990	رياضيات تطبيقية	ميكانيكا الموائع	العلوم	عين شمس - مصر

التدرج الوظيفي والعلمي:

- 1- مدرس مساعد بقسم الرياضيات بكلية التربية جامعة عين شمس من 1991.
- 2- مدرس بقسم الرياضيات بكلية التربية جامعة عين شمس من 1992.
- 3- أستاذ مساعد بقسم الرياضيات – كلية العلوم – جامعة ام القري (المملكة العربية السعودية) من 1994 إلى 1999 .
- 4- أستاذ مساعد بقسم الرياضيات بكلية التربية جامعة عين شمس من 1997 .
- 5- أستاذ بقسم الرياضيات بكلية التربية جامعة عين شمس من 2003 .
- 6- أستاذ بقسم الرياضيات – كلية العلوم – جامعة الجوف (المملكة العربية السعودية) من 2004 إلى 2005 .
- 7- أستاذ ورئيس قسم الرياضيات بكلية التربية جامعة عين شمس من 2005 إلى 2006 .
- 8- أستاذ و رئيس قسم الرياضيات – كلية العلوم – جامعة تبوك (المملكة العربية السعودية) من 2006 إلى 2012 .
- 9- أستاذ متفرغ بقسم الرياضيات بكلية التربية جامعة عين شمس من 2012 الي الان.

النشاطات العلمية والتعليمية

الخبرة في تدريس عدد من مقررات الرياضيات التطبيقية بكلية التربية بجامعة عين شمس و كليات العلوم بجامعات ام القري و الجوف و تبوك (المملكة العربية السعودية).

الخبرات التدريسية:

ميكانيك الموائع
نظرية الاضطراب
الكهربية والمغناطيسية
تحليل المتجهات والتانسور
ميكانيك الأوساط المتصلة
استاتيكا
ميكانيك
حساب التفاضل والتكامل
المعادلات التفاضلية
المعادلات التفاضلية الجزئية
دوال خاصة
الرياضيات الهندسية

المجالات البحثية:

استقرار الموائع – نظرية إستقرار الأتزان الخطى وغير الخطى – الحلول الدورية والتحليلية- طرق الاضطراب – التذبذب غير الخطى في الميكانيكا

نشر 91 بحثا علميا في عدد من المجلات العلمية المتميزة المصنفة وذات التأثير (أنظر النسخة
الإنجليزية).

CURRICULUM VITAE

Personal Data:

Name: **Yusry O. El-Dib**

Date of Birth: **17/4/ 1952**

Nationality: **Egyptian**

Position (Rank): **Professor**

Field of Specialization(Major):

Applied Mathematics

Field of Specialization(Minor):

Fluid Dynamics

Marital Status: **Married**

The workplace: **Department of Mathematics, Faculty of Education,
Ain Shams University, Roxy, Heliopolis, Cairo, Egypt**

Position: **Full-time Professor, Department of Mathematics, Faculty of
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Qualifications:

Degree	Issued by	Field of Specialization (Major)	Field of Specialization (Minor)
B. Sc.&Ed. (1975)	Faculty of Education Ain Shams University	Mathematics	Mathematics
B. Sc. (1980)	Faculty of Science Ain Shams University	Mathematics	Mathematics
M. Sc. (1984)	Faculty of Science Ain Shams University	Applied Mathematics	Fluid Dynamics
Ph. D. (1990)	Faculty of Science Ain Shams University	Applied Mathematics	Fluid Dynamics

Field Experience:(Career/Employment)(Dates, position and Employers)

- 1- 1991: Associate Lecturer, Department of Mathematics, Faculty of Education, Ain Shams University.
- 2- 1992: Lecturer, Department of Mathematics, Faculty of Education, Ain Shams University.
- 3- 1994 – 1999 : Assistant Professor, Department of Mathematics, Faculty of Science, Umm Al-Qura University, Kingdom of Saudi Arabia.
- 4- 1997: Assistant Professor, Department of Mathematics, Faculty of Education, Ain Shams University.
- 5- 2003: Professor, Department of Mathematics, Faculty of Education, Ain Shams University.
- 6- 2004 – 2005 : Professor, Department of Mathematics, Faculty of Science, Al-Jouf University, Kingdom of Saudi Arabia.
- 7- 2005-2006: Professor, Head of Mathematics Department, Faculty of Education, Ain Shams University.
- 8- 2006 – 2012 : Professor, Department of Mathematics, Faculty of Science, Tabouk University, Kingdom of Saudi Arabia.
- 9- 2012-2021: Professor, Department of Mathematics, Faculty of Education, Ain Shams University

Teaching Experience:

Fluid Mechanics

Perturbation Theory

Electric and Magnetic

Vector and Tensor analysis

Continuum Mechanics

Statics

Mechanics

Calculus
Differential Equations
Partial Differential Equations
Special Functions
Engineering Mathematics

Research interest:

Hydrodynamic Stability
Nonlinearity
He's frequency formula
Damped nonlinear oscillation
Perturbation methods
Periodic solution
Van der Pol oscillator
Toda oscillator
Helmholtz-Duffing oscillator
Non-linear oscillation in mechanics

List of Publications

Papers published in Refereed Journals:

- 1- El Sayed F. El Shehawey, **Y.O. El-Dib** and Abou El Magd A. Mohamed, Electrohydrodynamic stability of a fluid layer, *IL Nuovo Cimento D*, **6D (4) (1985)**.
- 2- Abou El Magd A. Mohamed, El Sayed F. El Shehawey and **Y.O. El-Dib**, Electrohydrodynamic stability of a fluid layer. II. Effect of a normal electric field, *The Journal of Chemical Physics*, **85 (1986) 445**.
- 3- Abou El Magd A. Mohamed, El Sayed F. El Shehawey and **Y.O. El-Dib**, Electrohydrodynamic stability of a fluid layer. Effect of a tangential periodic field, *IL Nuovo Cimento D*, **8D (2) (1986)**.
- 4- **Y.O. El-Dib**, Nonlinear stability of surface waves in magnetic fluids: Effect of a periodic tangential magnetic field, *Journal of Plasma Physics*, **49 (2) (1993) 317-330**.
- 5- **Y.O. El-Dib**, Nonlinear hydrodynamic Rayleigh-Taylor instability of viscous magnetic fluids: Effect of a tangential magnetic field, *Journal of Plasma Physics*, **51 (1) (1994) 1-11**.
- 6- **Y.O. El-Dib** and G.M. Moatimid, On the stability of a rotating electrified liquid jet. Effect of an axial electric field, *Physica A*, **205 (1994) 511-527**.
- 7- **Y.O. El-Dib**, Note on the stability criterion of a nonlinear partial differential equation of Schrödinger type, *Appl. Math. Lett.*, **7 (3) (1994) 89-92**.
- 8- Abou El Magd A. Mohamed, El Sayed F. El Shehawey and **Y.O. El-Dib**, Nonlinear Electrohydrodynamic Stability of a Fluid Layer: Effect of a Tangential Electric Field, *Journal of the Physical Society of Japan*, **63 (5) (1994) 1721-1737**.

- 9- G.M. Moatimid and **Y.O. El-Dib**, Effects of an unsteady rotation on the electrohydrodynamic stability of a cylindrical interface, *International Journal of Engineering Science*, **32** (7) (1994) 1183-1193.
- 10- **Y.O. El-Dib**, Effect of a periodic acceleration on nonlinear modulation of interfacial gravity-capillary waves between two electrified fluids under the influence of a horizontal electric field, *Canadian Journal of Physics*, **72** (1994) 578.
- 11- Abou El Magd A. Mohamed, El Sayed F. El Shehawey and **Y.O. El-Dib**, Electroviscoelastic Rayleigh-Taylor instability of Maxwell fluids: I. Effect of a constant tangential electric field, *J. Phys. A Math. Gen.*, **27** (1994) 3937-3954.
- 12- Abou El Magd A. Mohamed, El Sayed F. El Shehawey and **Y.O. El-Dib**, Electroviscoelastic Rayleigh-Taylor instability of Maxwell fluids—II. Effect of a periodic tangential electric field, *International Journal of Engineering Science*, **33** (3) (1995) 313-330.
- 13- **Y.O. El-Dib**, A parametric nonlinear Schrödinger equation and stability criterion, *Chaos Solitons & Fractals*, **5** (6) (1995) 1007-1012.
- 14- **Y.O. El-Dib**, Nonlinear gravity-capillary waves instability in superposed magnetic fluids influenced by a vertical magnetic field and time-dependent acceleration, *Fluid Dynamics Research*, **15** (1995) 385-404.
- 15- **Y.O. El-Dib**, On stability of parametric resonances of nonlinear surface waves propagating between two superposed electrified fluids, *IMA Journal of Applied Mathematics*, **55** (1995) 97-116.
- 16- G.M. Moatimid and **Y.O. El-Dib**, Kelvin-Helmholtz instability of miscible ferrofluids, *International Journal of Theoretical Physics*, **35** (2) (1996).
- 17- **Y.O. El-Dib**, Nonlinear stability of Kelvin-Helmholtz waves in magnetic fluids stressed by a time-dependent acceleration and a tangential magnetic field, *Journal of Plasma Physics*, **55** (2) (1996) 219-234.
- 18- **Y.O. El-Dib**, Capillary instability of an oscillating liquid column subjected to a periodic rigid-body rotation, *Fluid Dynamics Research*, **18** (1996) 17-34.
- 19- Abou El Magd A. Mohamed, El Sayed F. El Shehawey and **Y.O. El-Dib**, Electroviscoelastic stability of a Kelvin fluid layer, *International Journal of Engineering Science*, **34** (15) (1996) 1811-1826.
- 20- **Y.O. El-Dib**, The relation between surface charges and viscosity in interfacial stability influenced by a periodic electric force, *Z. angew. Math. Phys.*, **48** (1997) 60–86.
- 21- **Y.O. El-Dib**, The Gravitational stability of the interface between two electrorheological fluids, *Journal of Colloid and Interface Science*, **186**, 29–39 (1997).
- 22- Abou El Magd A. Mohamed, El Sayed F. El Shehawey and **Y.O. El-Dib**, Electroviscoelastic Rayleigh-Taylor instability of Kelvin fluids. Effect of a constant tangential electric field, *Fluid Dynamics Research*, **19** (1997) 327-341.
- 23- Abdel Raouf F. Elhefnawy, **Y.O. El-Dib** and Yassmen D. Mahmoud, Nonlinear electrohydrodynamic Rayleigh-Taylor instability with mass and heat transfer subject to a vertical oscillating force and a horizontal electric field, *International Journal of Theoretical Physics*, **36** (10) 1997.

- 24- **Y.O. El-Dib**, The stability of a rigidly rotating magnetic fluid column effect of a periodic azimuthal magnetic field, *J. Phys. A: Math. Gen.*, **30** (1997) 3585–3602.
- 25- G.M. Moatimid and **Y.O. El-Dib**, Effects of an external periodic body force on the interfacial stability of a nematic layer, *Quarterly of Applied Mathematics*, **LVI** (3) (1998) 413-429.
- 26- Abou El Magd A. Mohamed, El Sayed F. El Shehawey and **Y.O. El-Dib**, Electroviscoelastic Instability of a Kelvin Fluid Layer Influenced by a Periodic Electric Force, *Journal of Colloid and Interface Science*, **207** (1998) 54-69.
- 27- **Y.O. El-Dib**, Nonlinear Stability of an Electrified Interface Supporting Surface Charges between Two Viscous Fluids, *Journal of Colloid and Interface Science*, **210** (1999) 103–117.
- 28- Y.D. Mahmoud, G.M. Moatimid and **Y.O. El-Dib**, Nonlinear interfacial instability of two electrified miscible fluids, *Mechanics and Mechanical Engineering*, **4**(2) (2000) 225-249.
- 29- **Y.O. El-Dib**, Instability of parametrically second- and third-subharmonic resonances governed by nonlinear Schrödinger equations with complex coefficients, *Chaos, Solitons and Fractals*, **11** (2000) 1773-1787.
- 30- **Y.O. El-Dib** and Rajaa T. Matoog, Stability of Streaming in an Electrified Maxwell Fluid Sheet Influenced by a Vertical Periodic Field in the Absence of Surface Charges, *Journal of Colloid and Interface Science*, **229** (2000) 29-52.
- 31- **Y.O. El-Dib**, Viscous interface instability supporting free-surface currents in a hydromagnetic rotating fluid column, *Journal of Plasma Physics*, **65**(01) (2000) 1–28.
- 32- **Y.O. El-Dib**, Nonlinear Mathieu equation and coupled resonance mechanism, *Chaos, Solitons and Fractals*, **12**(4) (2001) 705-720.
- 33- **Y.O. El-Dib**, Nonlinear Wave-Wave Interaction and Stability Criterion for Parametrically Coupled Nonlinear Schrödinger Equations, *Nonlinear Dynamics*, **24**(4) (2001) 399-418.
- 34- **Y.O. El-Dib** and G.M. Moatimid, The Instability of a Viscoelastic Conducting Cylindrical Interface Supporting Free-surface Currents, *Zeitschrift für Naturforschung A*, **57**(3-4) (2002).
- 35- **Y.O. El-Dib**, Instability for Shearing of an Electrified Kelvin Fluid Sheet with or without Supporting Surface Charges, *Journal of Colloid and Interface Science*, **250**(2) (2002) 344-363.
- 36- Abou El Magd A. Mohamed, **Y.O. El-Dib** and Amal A. Mady, Nonlinear gravitational stability of streaming in an electrified viscous flow through porous media, *Chaos, Solitons and Fractals*, **14**(7) (2002) 1027-1045.
- 37- **Y.O. El-Dib**, Nonlinear electrorheological instability of two Rivlin–Ericksen elasto-viscous fluids, *Journal of Physics A General Physics*, **36**(7) (2003) 1985.
- 38- **Y.O. El-Dib**, Nonlinear hydromagnetic Rayleigh–Taylor instability for strong viscous fluids in porous media, *Journal of Magnetism and Magnetic Materials*, **260**(1-2) (2003) 1-18.
- 39- **Y.O. El-Dib**, Nonlinear Rayleigh-Taylor instability for hydromagnetic Darcian flow: Effect of free surface currents, *Journal of Colloid and Interface Science*, **259**(2) (2003) 309-321.

- 40- **Y.O. El-Dib** and A.Y. Ghaly, Nonlinear interfacial stability for magnetic fluids in porous media, *Chaos, Solitons and Fractals*, **18(1)** (2003) 55-68.
- 41- **Y.O. El-Dib**, Stability of self-resonance mechanisms in nonlinear interaction between two primary harmonic waves, *Mechanics and Mechanical Engineering*, **7(1)** (2004) 69-85.
- 42- **Y.O. El-Dib** and O.E. Abd El-Latif, Instability of Darcian flow in an alternating magnetic field, *Mechanics and Mechanical Engineering*, **7(2)** (2004) 23-60.
- 43- **Y.O. El-Dib** and A.Y. Ghaly, Destabilizing effect of time-dependent oblique magnetic field on magnetic fluids streaming in porous media, *Journal of Colloid and Interface Science*, **269(1)** (2004) 224-239.
- 44- G.M. Moatimid and **Y.O. El-Dib**, Nonlinear Kelvin–Helmholtz instability of Oldroydian viscoelastic fluid in porous media, *Physica A*, **333(1)** (2004) 41-64.
- 45- **Y.O. El-Dib** and G.M. Moatimid, Non-Linear Stability of an Electrified Plane Interface in Porous Media, *Zeitschrift für Naturforschung A*, **59(3)** (2004).
- 46- **Y.O. El-Dib** and O.E. Abd El-Latif, Nonlinear surface wave instability for electrified Kelvin fluids, *Journal of Colloid and Interface Science*, **285(2)** (2005) 744-759.
- 47- **Y.O. El-Dib** and Rajaa T. Matoog, Electrorheological Kelvin-Helmholtz instability of a fluid sheet, *Journal of Colloid and Interface Science*, **289(1)** (2005) 223-241.
- 48- **Y.O. El-Dib**, Nonlinear Hydromagnetic Surface Waves Instability in Porous Media, In book: *Advances in Plasma Physics Research*, Edition: Volume 5, Chapter: 1, Publisher: Nova Science Publishers, Editors: Francois Gerard (2006).
- 49- **Y.O. El-Dib**, Effect of Dielectric Viscoelastic Interface on Nonlinear Kelvin-Helmholtz Instability, *Physica Scripta*, **66(4)** (2006) 308.
- 50- **Y.O. El-Dib** and Yassmin D. Mahmoud, Nonlinear Instability of Rayleigh-Taylor Waves Subjected to Time-Dependent Temperatures, *Zeitschrift für Naturforschung A*, **63(9)** (2008).
- 51- **Y.O. El-Dib**, Stability criterion for time-delay 3-dimension damped Mathieu equation, *Science and Engineering Applications*, **1(5)** (2016) 76-88.
- 52- **Y.O. El-Dib**, Homotopy perturbation for excited nonlinear equations, *Science and Engineering Applications*, **2(1)** (2017) 96-108.
- 53- **Y.O. El-Dib**, Time-delay two-dimension Mathieu equation in synchrotron Dynamics, *Mechanics and Mechanical Engineering*, **21(3)** (2017) 499–511.
- 54- **Y.O. El-Dib**, Multiple scales homotopy perturbation method for nonlinear oscillators, *Nonlinear Sci. Lett. A*, **9** (2017), 352–364.
- 55- **Y.O. El-Dib**, Periodic solution and stability behavior for nonlinear oscillator having a cubic nonlinearity time-delayed, *Int. Annals of Science*, **5** (1) (2018) 12-25.
- 56- G.M. Moatimid, **Y.O. El-Dib** and Marwa H. Zekry, Stability analysis using multiple scales homotopy approach of coupled cylindrical interfaces under the influence of periodic electrostatic fields, *Chinese Journal of Physics*, **56** (2018) 2507-2522.
- 57- **Y.O. El-Dib** and G.M. Moatimid, On the coupling of the homotopy perturbation and Frobenius method for exact solutions of singular nonlinear differential equations, *Nonlinear Sci. Lett. A*, **9** (3) (2018) 220-230.

- 58- **Y.O. El-Dib**, The stability conditions of the cubic damping Van Der Pol-Duffing oscillator using the HPM with the frequency-expansion technology, *Journal of Applied Mathematics and Computational Mechanics*, **17** (3) (2018) 31-44.
- 59- **Y. O. El-Dib**, Stability analysis of a strongly displacement time-delayed Duffing oscillator using multiple scales homotopy perturbation method, *Journal of Applied and Computational Mechanics*, **4** (2018) 260–274.
- 60- **Y. O. El-Dib**, Stability approach for periodic delay Mathieu equation by the He-multiple-scales method, *Alexandria Eng. J.*, **57** (2018) 4009–4020.
- 61- **Y.O. El-Dib**, Multi-homotopy perturbations technique for solving nonlinear partial differential equations with Laplace transforms, *Nonlinear Sci. Lett. A*, **9** (4) (2018) 349-359.
- 62- **Y.O. El-Dib** and Amal A. Mady, A nonlinear stability of rotating two superposed magnetized fluids with the homotopy perturbation technique, *Journal of Computational and Applied Mechanics*, **49** (2) (2018) 50-63.
- 63- **Y. O. El-Dib**, Periodic solution of the cubic nonlinear Klein–Gordon equation and the stability criteria via the He-multiple-scales method, *Pramana - Journal of Physics*, **92** (2019) 7.
- 64- G.M. Moatimid, **Y.O. El-Dib** and Aya Sayed, Stable configuration of double horizontal interfaces via the He-multiple scales method, *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, **59** (2) (2019) 182-206.
- 65- **Y.O. El-Dib** and G.M. Moatimid, Stability configuration of a rocking rigid rod over a circular surface using the homotopy perturbation method and Laplace transform, *Arabian Journal for Science and Engineering*, **44** (2019) 6581–6591.
- 66- G.M. Moatimid, **Y.O. El-Dib** and Marwa H. Zekry, Instability analysis of a streaming electrified cylindrical sheet through porous media, *Pramana - Journal of Physics*, **92** (2019) 22.
- 67- G.M. Moatimid, **Y.O. El-Dib** and Marwa H. Zekry, The nonlinear instability of a cylindrical interface between two hydromagnetic Darcian flows, *Arabian Journal for Science and Engineering*, **45** (2020) 391–409.
- 68- **Y.O. El-Dib**, G.M. Moatimid and Amal A. Mady, A novelty to the nonlinear rotating Rayleigh–Taylor instability, *Pramana - Journal of Physics*, **93** (2019) 82.
- 69- **Y.O. El-Dib** and Amal A. Mady, He’s multiple-scale solution for the three-dimensional nonlinear KH instability of rotating magnetic fluids, *Int. Annals of Science*, **9** (1) (2020) 52-69.
- 70- **Y.O. El-Dib** and Nasser S. Elgazery, Effect of fractional derivative properties on the periodic solution of the nonlinear oscillations, *Fractals*, **28** (7) (2020) 2050095.
- 71- **Y.O. El-Dib**, G.M. Moatimid and Amal A. Mady, A nonlinear Azimuthal instability of hydromagnetic rigid-rotating column, *Chinese Journal of Physics*, **66** (2020) 285-300.
- 72- J. H. He and **Y.O. El-Dib**, Periodic property of the time-fractional Kundu–Mukherjee–Naskar equation, *Results Phys.* **19** (2020), 103345.
- 73- **Y. O. El-Dib**, Stability approach of a fractional-delayed Duffing oscillator, *Discontinuity, Nonlinearity, and Complexity*, **9**(3) (2020) 367-376.

- 74- **Y.O. El-Dib**, G.M. Moatimid and Nasser S. Elgazery, Stability analysis through a damped nonlinear wave equation, *Journal of Applied and Computational Mechanics*, 6(SI) (2020) 1394-1403.
- 75- J. H. He and **Y.O. El-Dib**, Homotopy perturbation method for Fangzhu oscillator, *Journal of Mathematical Chemistry*, (2020). <https://doi.org/10.1007/s10910-020-01167-6>.
- 76- J. H. He and **Y.O. El-Dib**, The reducing rank method to solve third-order Duffing equation with the homotopy perturbation, *Numer Methods Partial Differential Eq.*, (2020) 1–9.
- 77- **Y.O. El-Dib**, Modified multiple scale technique for the stability of the fractional delayed nonlinear oscillator, *Pramana - Journal of Physics*, 94 (2020) 56.
- 78- **Y.O. El-Dib**, Homotopy perturbation method with rank upgrading technique for the superior nonlinear oscillation, *Mathematics and Computers in Simulation*, 182 (2021) 555-565.
- 79- **Y.O. El-Dib** and Rajaa T. Matoog, The Rank Upgrading Technique for a Harmonic Restoring Force of Nonlinear Oscillators, *Journal of Applied and Computational Mechanics*, 7(2) (2021) 782-789.
- 80- **Y.O. El-Dib**, An analytical solution for forcing nonlinear fractional delayed Duffing oscillator, *Journal of Applied Nonlinear Dynamics*, 10 (1) (2021) 111-124.
- 81- J. H. He and **Y.O. El-Dib**, The enhanced homotopy perturbation method for axial vibration of strings, *FACTA UNIVERSITATIS:Mechanical Engineering*, (2021) , <https://doi.org/10.22190/FUME210125033H>
- 82- J. H. He and **Y.O. El-Dib**, Homotopy perturbation method with three expansions, *Journal of Mathematical Chemistry*, 59 (2021) 1139–1150.
- 83- Y. Shen and **Y.O. El-Dib**, A periodic solution of the fractional sine-Gordon equation arising in architectural engineering, *Journal of Low Frequency Noise, Vibration and Active Control*, (2021), <http://dx.doi.org/10.1177/1461348420917565>
- 84- **Y.O. El-Dib**, G.M. Moatimid, Amal A. Mady and Marwa H. Zekry, Nonlinear hydromagnetic instability of oscillatory rotating rigid-fluid columns, *Indian Journal of Physics*, <https://doi.org/10.1007/s12648-021-02022-3> (2021)
- 85- **Y.O. El-Dib**, Nasser S. Elgazery and Amal A. Mady, Nonlinear dynamical analysis of a time-fractional Klein-Gordon equation, *Pramana - Journal of Physics*, (3/5/2021).
- 86- Galal M. Moatimid, and **Y.O. El-Dib**, . "Nonlinear instability analysis of a vertical cylindrical magnetic sheet." *International Journal of Nonlinear Analysis and Applications* 12.2 (2021): 583-601.
- 87- **Y.O. El-Dib**, Nasser S. Elgazery, **Damped Mathieu Equation with a Modulation Property of the Homotopy Perturbation Method**, *Sound & Vibration*
- 88- He, Ji-Huan, **Y.O. El-Dib**, and Amal A. Mady. "Homotopy Perturbation Method for the Fractal Toda Oscillator." *Fractal and Fractional* 5.3 (2021): 93.
- 89- **Y.O. El-Dib**,The frequency estimation for non-conservative nonlinear oscillation. *ZAMM Journal of applied mathematics and mechanics*
- 90- Moatimid, G. M., **Y. O. El-Dib**, and M. H. Zekry. "Stability analysis using multiple scales homotopy approach of coupled cylindrical

interfaces under the influence of periodic electrostatic fields." *Chinese journal of physics* 56.5 (2018): 2507-2522.

- 91- [El-Dib, Yusry O.](#), Galal M. Moatimid, and Nasser S. Elgazery. "Stability analysis of a damped nonlinear wave equation." *Journal of Applied and Computational Mechanics* (2020).