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موقع المكتب: 5D-5A

الحالة الاجتماعية: ...

حصل على درجة الدكتوراه في الرياضيات في عام 2013 م ، من جامعة المعهد الهندي للتكنولوجيا روركي في الهند ، وعلى درجة الماجستير في الرياضيات في عام 2008م، من جامعة B.H.U(الهند) ، كما حصل على درجة بكالوريوس علوم في الرياضيات و الفيزياء في عام 2006 من جامعة لوكناو (الهند) أما اهتماماته البحثية فتقع في المعادلات التفاضلية و النسبية العامة و علم الكون و التحويلات المتماثلة

[Dr- Sunil UoN CV.pdf](#)

المؤهلات الأكاديمية

Ph.D, IIT Roorkee, 2013

أنشطة التدريس

Engineering Mathematics-I, Differential Calculus, Integral Calculus, Ordinary differential equations and Fourier series

.Engineering Mathematics-III: Matrix, Vector space and Complex analysis

Calculus-II, hyperbolic, inverse trigonometric functions, techniques of integration, Applications of integration (volumes, surfaces, arc-length), the definite integral, sequences and series, Taylor polynomials and approximation

Calculus-I, Limits, Differentiation, Integrations

Precalculus

Differential Equations

Mathematical Economics : , derivatives and optimization techniques for functions, basic techniques of integration, definite integrals. The emphasis is placed on applications of derivatives and integrals to various problems from business, economics and finance

Foundation of Mathematics, Logic and proofs, Sets, Relations, Equivalence Relations, Functions and Cardinality

Foundation of Analysis, : field axioms, ordered axioms, Supremum and Infimum, Completeness of , Properties of Supremum and Infimum (Proofs of Uniqueness, Approximation, Monotonicity, and Additive Properties, and other properties) , and Archimedean property of real numbers; The dense set. The sets of rational numbers and of irrational numbers are dens in the set of real numbers

Introduction to Number theory, integers, divisibility, primes and their distribution, the theory of congruences, Fermat`s and Euler theorems, and applications

Mathematical Economics for Masters, statics (equilibrium analysis), comparative statics, and optimization problems and dynamics, making use of the following mathematical methods: differential and integral calculus (advanced calculus), dynamic optimization, linear programming and differential equations. They will be able to select and apply appropriate techniques to solve problems apply mathematical and graphical techniques in an appropriate manner

Engineering Mathematics-II: Vector calculus, Partial Differential Equations and Laplace transforms

الأنشطة البحثية

الاهتمامات البحثية -

Modelling of compact stars, Astronomy & Astrophysics

Differential Equations

General Relativity and Cosmology

Exact solution of Einstein-field Equations

المنشورات -

مقال:

[A generalized family of anisotropic compact object in general relativity](#), Annals of Physics 2019 .1
395 (2018) 152-169

[Charged anisotropic strange stars in general relativity](#), Eur. Phys. J. C (2019) 79:33 2019 .2

[A study on charged compact stars](#), International Journal of Modern Physics D, Vol. 28 2019 .3
(2019) 1950053 (19 pages)

[Generalized relativistic anisotropic compact star models by gravitational decoupling](#), Eur. 2019 .4
Phys. J. C (2019) 79:85

[Anisotropic compact stars in the Buchdahl model: A comprehensive study](#), PHYSICAL 2019 .5
(REVIEW D 99, 044029 (2019)

[Generalized anisotropic models for conformal symmetry](#), Eur. Phys. J. C (2019) 79:170 2019 .6

[Exploring physical features of anisotropic strange stars beyond standard maximum mass limit in \$f\(R, T\)\$ gravity](#), Monthly Notices of the Royal Astronomical Society, Volume 485, Issue 4, 2019 .7

- [Relativistic model for anisotropic compact stars using Karmarkar condition](#), *Astrophys Space Sci* (2019) 364:66 .8
- [A generalized Finch-Skea class one static solution](#), *Eur. Phys. J. C* (2019) 79:381 2019 .9
- [A study of anisotropic compact stars based on embedding class 1 condition](#), 2019 .10
(*International Journal of Modern Physics D*, Vol. 28 (2019) 1950116 (19 pages)
- [Effect of pressure anisotropy on Buchdahl-type relativistic compact stars](#), *General Relativity and Gravitation* (2019) 51:86 .11
- [Study of anisotropic strange stars in \$f\(R;T\)\$ gravity: An embedding approach under the simplest linear functional of the matter-geometry coupling](#), *PHYSICAL REVIEW D* 100, 044014 ((2019) 2019 .12
- [Role of pressure anisotropy on relativistic compact stars](#), *PHYSICAL REVIEW D* 97, 044022 (2018) 044022 (2018) .13
- [Relativistic compact stars with charged anisotropic matter](#), *Chinese Physics C* Vol. 42, No. 5 (2018) 055101 .14
- [New anisotropic fluid spheres from embedding](#), *Eur. Phys. J. A* (2018) 54: 68 2018 .15
- [Charged Vaidya-Tikekar model for super compact star](#), *Eur. Phys. J. C* (2018) 78:540 2018 .16
- [A generalized family of anisotropic compact object in general relativity](#), *Annals of Physics* 395 (2018) 152-169 .17
- [Exact solution of anisotropic compact stars via mass function](#), *Astrophys Space Sci* (2018) 363:208 .18
- [A new model for spherically symmetric charged compact stars of embedding class 1](#), 2017 .19
Eur. Phys. J. C (2017) 77:45
- [Anisotropic stars for spherically symmetric spacetimes satisfying the Karmarkar condition](#), *Annals of Physics* 382 (2017) 36-49 2017 .20
- [Relativistic modeling of compact stars for anisotropic matter distribution](#), *Eur. Phys. J. A* (2017) 53: 89 2017 .21
- [Anisotropic fluid spheres of embedding class one using Karmarkar condition](#), *Eur. Phys. J. C* (2017) 77:328 2017 .22
- [Generating physically realizable stellar structures via embedding](#), *Eur. Phys. J. C* (2017) 77:347 2017 .23
- [All spherically symmetric charged anisotropic solutions for compact stars](#), *Eur. Phys. J. C* (2017) 77:360 2017 .24
- [Generating physically realizable stellar structures via embedding](#), *Eur. Phys. J. C* (2017) 77:347 2017 .25
- [All spherically symmetric charged anisotropic solutions for compact stars](#), *Eur. Phys. J. C* (2017) 77:360 2017 .26
- [A family of charged compact objects with anisotropic pressure](#), *Eur. Phys. J. C* (2017) 77:420 2017 .27
- [Modeling of charged anisotropic compact stars in general relativity](#), *Eur. Phys. J. A* (2017) 53: 141 2017 .28
- [Compact stars with specific mass function](#), *Annals of Physics* 385 (2017) 532-545 2017 .29
- [Generalised model for anisotropic compact stars](#), *Eur. Phys. J. C* (2016) 76:693 2016 .30

العضوية في الهيئات المهنية

.Editorial Board Member of the International Journal of Modern Physics and Application :الآن-2014

Member of International Association of Computer Science and Information Technology :الآن-2014
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المرجع: <https://www.unizwa.edu.om/staff/cas/sunil>