Oman Report*

(27 September 2003 to Present)

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This is the *Consolidated Report* of my stay in Oman; at the Middle East College of Information Technology, Muscat (**MECIT**); the Salalah College of Technology, Salalah, (**SCOT**); and the Dhofar University (**DU**).

Courses Taught at MECIT

1. **Fall Semester** (September 2003 - January 2004)
   - Mathematics-I (2 Sections)
   - Mathematics-II (2 Sections)
2. **Spring Semester** (February-June 2004)
   - Foundation Mathematics & Statistics (2 Sections)
   - Mathematics-I (1 Section)
   - Mathematics-II (2 Sections)
3. **Summer Semester** (July-September 2004)
   - Mathematics-II (1 Section, done jointly with Colleagues)
4. **Fall Semester** (September 2004 - January 2005)
   - Physics
   - Engineering Mechanics
   - Mathematics-II (2 Sections)
5. **Spring Semester** (February-June 2005)
   - Physics
   - Engineering Mechanics (2 Sections)
   - Mathematics-II (2 Sections)
6. **Fall Semester** (September 2005 - January 2006)
   - College Mathematics (3 Sections)
   - Calculus with Numerical Methods (4 Sections)
   - Engineering Physics (2 Sections)
7. **Spring Semester** (February-May 2006)
   - Calculus with Numerical Methods (6 Sections)
   - Advanced Calculus (1 Section)
   - Engineering Physics (2 Sections)

*Updated on Friday the 09 December 2016. **http://SameenAhmedKhan.webs.com/**

Courses Taught at SCOT

1. **Spring Semester** (May-July 2006)
   - Physics-I (5 Sections)
2. **Fall Semester** (September-December 2006)
   - Physics-I (3 Sections)
3. **Spring Semester** (January-April 2007)
   - Physics-I (3 Sections)
4. **Summer Semester** (May-July 2007)
   - Physics-I (2 Sections)
5. **Fall Semester** (September-December 2007)
   - Physics-I (3 Sections)
   - Physics-II (1 Laboratory Section)
6. **Spring Semester** (January-May 2008)
   - Physics-I (3 Sections)
7. **Summer Semester** (May-July 2008)
   - Physics-I (4 Sections)
8. **Fall Semester** (September-December 2008)
   - Physics-I (3 Sections)
   - Physics-II (1 Laboratory Section)
9. **Spring Semester** (January-May 2009)
   - Physics-I (4 Sections)
10. **Summer Semester** (May-July 2009)
    - Physics-I (4 Sections)
11. **Fall Semester** (September-December 2009)
    - Physics-I (3 Sections)
    - Physics-II (2 Laboratory Sections)
12. **Spring Semester** (January-May 2010)
    - Physics-I (5 Sections)
13. **Summer Semester** (May-July 2010)
    - Physics-I (3 Sections)
    - Physics-II (1 Laboratory Section)

14. **Fall Semester** (September-December 2010)
    - Physics-I (4 Sections)
15. **Spring Semester** (January-May 2011)
    - Physics-I (5 Sections)
16. **Summer Semester** (May-July 2011)
    - Physics-I (4 Sections)
17. **Fall Semester** (September-December 2011)
    - Physics-I (4 Sections)
18. **Spring Semester** (January-May 2012)
    - Physics-II (5 Sections)
19. **Summer Semester** (May-July 2012)
    - Physics-II (2 Sections)
20. **Fall Semester** (September-December 2012)
    - Physics-II (3 Sections)
21. **Spring Semester** (January-May 2013)
    - Physics-II (3 Sections)
22. **Summer Semester** (May-July 2013)
    - Physics-II (2 Sections)
23. **Fall Semester** (September-December 2013)
    - Physics-II (3 Sections)
24. **Spring Semester** (January-May 2014)
    - Physics-II (3 Sections)
25. **Summer Semester** (May-July 2014)
    - Physics-II (2 Sections)
26. **Fall Semester** (September-December 2014)
    - Physics-I (1 Section)
    - Physics-II (3 Sections)

Committees

Committees at MECIT

1. **Disciplinary Committee**
   (October 2003 - September 2004).

2. **Journal Committee**
   (January 2004 to May 2006).

3. **Library Committee**
   (November 2003 to May 2006)
   Actively involved in the Library affairs including correspondence leading to free subscription of Journals/Newsletters/Magazines.

4. **Web-Site Committee**
   (October 2004 to May 2006).

5. **Prizes and Awards Committee**
   (February 2005 to May 2006).

6. **Accreditation Steering Committee**
   (February 2006 to May 2006).

Committees at SCOT

1. **Time Table Committee**
   (September 2006 - January 2009).

2. **Examination Committee**
   (October 2006 - January 2009).

3. **E-Learning and Library Committee**
   (April 2007 to June 2008).

4. **Moderation Committee**
   (September 2007 - January 2009).

5. **Staff Development Committee**
   (November 2007 - January 2009).

6. **Staff Research and Consultancy**
   (*Chairman*, October-2008 - January-2014)
   (Group-8, under the Oman Quality Assurance Framework)
   (October 2008 -).

7. **Accreditation Steering Committee**
   (Portfolio Preparation for the Oman Accreditation Council)
   (November 2008 -).

8. **Curriculum Review & Development Committee**
   (February 2009 - February 2011).

9. **Academic Journal Committee**
   (September 2009 -).

10. **Staff Handbook Committee**
    (October 2009 -).

11. **Student Induction Committee**
    Student Progress Committee.
    (March 2010 - February 2011).

12. **Staff Induction, Staff Development and Recruitment Committee**
    (February 2011 - April 2014).

13. **SCT Eco Club (Environment)**
    (September 2013 -).

14.

Professional Achievements:

In March 2005, I was appointed as the *Regular Correspondent* for the ICFA Beam Dynamics Panel Newsletters, for the regions of Middle East & Africa. ICFA, the International Committee for Future Accelerators, provides a forum to discuss and implement plans for further promoting collaborative accelerator-based science. Its primary purpose is to strengthen collaboration in accelerator-based science, to encourage future projects, and to make recommendations to governments. The formal announcement appeared in the International Committee for Future Accelerators (ICFA) *Beam Dynamics Panel Newsletter*, **No. 36** (April 2005). Further details are available at: http://icfa-usa.jlab.org/archive/newsletter.shtml

Homepages: I was instrumental in designing and installing the Department Homepages on the College Intranet: http://stfsvr03/mathsandstats/index.html and http://stfsvr03/physics/index.html. Also available at: http://stdsvr03/mathsandstats/index.html and http://stdsvr03/physics/index.html respectively. The above homepages contain the in-house prepared *Lecture Notes* and *Question Banks*, meeting most of the requirements of all the courses (three-semester sequence in Mathematics, Statistics and Physics respectively) offered by the Department.

Mathematics Olympiad: I was part of the three-member team, which jointly conducted the *first* Mathematics Olympiad in the College, on Wednesday the 26th May 2004. The other two members of the team were my Colleagues from the Department, Ms. Lavanya Venkatesan and Ms. Usha Ramanathan. The second Olympiad was conducted on Tuesday the 21 March 2006. These events are now evolving into a National Olympiad with the first *Intercollegiate Mathematics Olympiad* held on Sunday the 07 May 2006, during the Intercollegiate Meet, **QUEST** (6-8 May 2006, http://www.mecit-quest.com/).

Reviewer and Referee:

- Serving on the Board of Advisors, *RFID Association, India.* http://www.rfida.org/.
- Served as a Referee for several Peer-Reviewed Journals.
- Member of the Review Panel, *International Conference on Applied Information and Communications Technology*, (22-23 March 2011 at MECIT, the Middle East College of Information Technology, Muscat, Sultanate of Oman). http://www.mecit.edu.om/conf2011/.
- The *Regular Correspondent* for the ICFA Beam Dynamics Panel Newsletters, for the regions of Middle East & Africa. (**ICFA**: International Committee for Future Accelerators, http://icfa-usa.jlab.org/archive/newsletter.shtml).

Research Summary

Main Fileds of Research: *Mathematical Optics*
I am working towards a unified treatment of light beam optics and polarization, using the standard mathematical machinery of quantum mechanics. Dirac-*like* form of the Maxwell equations is well known in literature. Starting with the Dirac-*like* form of the Maxwells equations a unified treatment of light beam optics and polarization has been obtained. The traditional results (including aberrations) of the scalar optics are modified by the wavelength-dependent contributions. Some of the well-known results in polarization studies are realized as the leading-order limit of a more general framework of our formalism. The existing matrix representations of the Maxwells equations were found to be approximate for the formalism developed here; hence, an exact matrix representation of the Maxwells equations was derived.

A related study was made starting with the scalar approximation of the Maxwells equations. Using the analogy of the Helmholtz equation with the Klein-Gordon equation and the Feshbach-Villars approach to the Klein-Gordon equation a formalism utilizing the powerful techniques of quantum mechanics has been developed for scalar optics including aberrations. This provides an alternative to the traditional *square-root* approach and gives rise to wavelength-dependent contributions modifying the aberration coefficients.

Some of the results have been published and others have been communicated.

PATENTS

Quadricmeter is the instrument devised to identify (distinguish) and measure the various parameters (axis, foci, latera recta, directrix, etc.,) completely characterizing the important class of surfaces known as the quadratic surfaces. Quadratic surfaces (also known as quadrics) include a wide range of commonly encountered surfaces including, cone, cylinder, ellipsoid, elliptic cone, elliptic cylinder, elliptic hyperboloid, elliptic paraboloid, hyperbolic cylinder, hyperbolic paraboloid, paraboloid, sphere, and spheroid. Quadricmeter is a generalized form of the conventional spherometer and the lesser known cylindrometer (also known as the Cylindro-Spherometer). With a conventional spherometer it was possible only to measure the radii of spherical surfaces. Cylindrometer can measure the radii of curvature of a cylindrical surface in addition to the spherical surface. In both the spherometer and the cylindrometer one assumes the surface to be either spherical or cylindrical respectively. In the case of the quadricmeter, there are no such assumptions.

- Sameen Ahmed Khan,
  Quadricmeter,
  Official Journal of the Patent Office, Issue No. **43/2008**, Part-I, pp. 25296 (24 October 2008).
  Application No.: **2126/MUM/2008 A**, International Classification: **B69G1/36**,
  Controller General of Patents Designs and Trade Marks, Government of India.

  `http://ipindia.nic.in/ipr/patent/journal_archieve/journal_2008/patent_journal_2008.htm`

  `http://ipindia.nic.in/ipr/patent/journal_archieve/journal_2008/pat_arch_102008/official_jour`

  `http://www.patentoffice.nic.in/, http://www.ipindia.nic.in/`

  (*patent in process*, **http://SameenAhmedKhan.webs.com/quadricmeter.html**).

- Sameen Ahmed Khan,
  Conicmeter,
  (*in process*).

PUBLICATIONS

Lecture Notes:

1. Sameen Ahmed Khan,
   Lecture Notes in Mathematics,
   Middle East College of Information Technology,
   Muscat, Sultanate of Oman (2005). http://www.mecit.edu.om/.
   The Notes cover the *Foundation Mathematics* and the Three-Semester Sequence of *Engineering Mathematics*, *College Mathematics*, *Calculus with Numerical Methods* and *Advanced Calculus*.

2. Sameen Ahmed Khan,
   Lecture Notes in Physics,
   Middle East College of Information Technology,
   Muscat, Sultanate of Oman (2005).
   http://www.mecit.edu.om/.
   The Notes cover the Two-Semester Sequence of *Physics* along with *Engineering Physics* and *Engineering Mechanics*.

3. Sameen Ahmed Khan,
   Lecture Notes in Physics,
   Salalah College of Technology E-Learning Website,
   http://www.sct.edu.om/, (2010).
   The Notes cover the Two-Semester Sequence of *Physics for Engineering*.

4. Sameen Ahmed Khan,
   Physics Laboratory Manual,
   Salalah College of Technology E-Learning Website,
   http://www.sct.edu.om/, (2010).
   The Notes cover over twenty experiments for the Two-Semester Sequence of *Physics for Engineering*.

Contributions to International Reports:

1. $\cdots$, Sameen Ahmed KHAN, $\cdots$, (*one of the 250+ Contributors, from 79 Institutions*),
GLD Detector Outline Document (**GLD DOD**),
GLD: A Large Detector Concept study for International Linear Collider for TeV Physics
Report of the
GLD Concept Study Group,
World Wide Study of Physics and Detectors for future Linear e^+e^- Colliders, (March 2006).
GLD: Gaseous tracker based Large Detector.
E-Print arXiv: http://arXiv.org/abs/physics/0607154/.

2. $\cdots$, Sameen Ahmed KHAN, $\cdots$, (*one of the 500+ Contributors, from 325 Institutions*),
International Linear Collider Reference Design Report, (*Four Volumes*)
ILC Global Design Report and World Wide Study,
(August 2007).
ILC: International Linear Collider.
(Digital Object Identifier (**DOI**), http://dx.doi.org/10.2172/914731).
E-Print arXiv: http://arxiv.org/abs/0712.1950/, http://arxiv.org/abs/0709.1893/,
http://arxiv.org/abs/0712.2361/ and http://arxiv.org/abs/0712.2356/.

3. $\cdots$, Sameen Ahmed KHAN, $\cdots$, (*one of the Signatories*),
Letter of Intent (LOI), **The International Large Detector Letter of Intent**,
ILD Concept Group, International Linear Collider (ILC)
DESY 2009-87, FERMILAB-PUB-09-682-E, KEK Report 2009-6, (February 2010).
(Digital Object Identifier (**DOI**), http://dx.doi.org/10.2172/975166).
E-Print arXiv: http://arxiv.org/abs/1006.3396/.

4. $\cdots$, S. A. KHAN, $\cdots$, (*one of the 2400 Signatories, from 408 Institutions*),
International Linear Collider Technical Design Report, (*Five Volumes*)
ILC Global Design Effort (GDE), (Wednesday the 12 June 2013).
ILC: International Linear Collider.
(Digital Object Identifier (**DOI**), http://dx.doi.org/).
E-Print arXiv: http://arxiv.org/abs/1306.6327/, http://arxiv.org/abs/1306.6352/,
http://arxiv.org/abs/1306.6353/, http://arxiv.org/abs/1306.6328/ and
http://arxiv.org/abs/1306.6329/.

A. Books

1. Sameen Ahmed Khan,
International Year of Light and Light-based Technologies,
LAMBERT Academic Publishing, Germany (Thursday the 30 July 2015),
96 pages. http://www.lap-publishing.com/, http://isbn.nu/9783659764820/.
ISBN-13: 978-3-659-76482-0 and **ISBN-10:** 3659764825.

2. Sameen Ahmed Khan,
Introductory Physics Laboratory Manual,
LAP LAMBERT Academic Publishing, Germany (Wednesday the 19 August 2015),
168 pages. http://www.lap-publishing.com/, http://isbn.nu/9783659771897/.
ISBN-13: 978-3-659-77189-7 and **ISBN-10:** 3659771899.

3. Sameen Ahmed Khan,
Objective Questions in Introductory Physics,
LAP LAMBERT Academic Publishing, Germany (Friday the 9 October 2015),
408 pages. http://www.lap-publishing.com/, http://isbn.nu/9783659786198/.
ISBN-13: 978-3-659-78619-8 and **ISBN-10:** 3659786195.

B. Review Articles and Book Chapters

1. Sameen Ahmed Khan,
   Wavelength-Dependent Effects in Light Optics,
   Chapter-6 in:
   New Topics in Quantum Physics Research,
   Editors: Volodymyr Krasnoholovets and Frank Columbus,
   (Nova Science Publishers, New York, 2006, http://www.novapublishers.com/).
   pp. 163-204 (30 December 2006).
   (ISBN-10: 1600210287 and ISBN-13: 978-1600210280).

2. Sameen Ahmed Khan,
   The Foldy-Wouthuysen Transformation Technique in Optics,
   Chapter-2 in:
   Advances in Imaging and Electron Physics, *Editor*: Peter W. Hawkes,
   (Elsevier, 2008) **Vol. 152**, pp. 49-78 (August 2008).
   (ISBN-10: 0123742196 and ISBN-13: 978-0-12-374219-3).
   (Digital Object Identifier (**DOI**), http://dx.doi.org/10.1016/S1076-5670(08)00602-2).

3. Sameen Ahmed Khan,
   Number Theory and Resistor Networks,
   Chapter-5 in:
   Resistors: Theory of Operation, Behavior and Safety Regulations,
   Editor: Roy Abi Zeid Daou,
   (Nova Science Publishers, New York, 2013, http://www.novapublishers.com/).
   pp. 99-154 (May 2013).
   (Hard Cover: pp. 99-154, ISBN-10: 1622577884 and ISBN-13: 978-1-62257-788-0).
   (ebook: pp. ???-???, ISBN-10: 1626187959 and ISBN-13: 978-1-62618-795-5).

4. Sameen Ahmed Khan,
   Coordinate Geometric Generalization of the Spherometer and Cylindrometer,
   Chapter-8 in:
   Advances in Engineering Research, **Volume 10**,
   Editor: Victoria M. Petrova,
   (Nova Science Publishers, New York, 2015, http://www.novapublishers.com/).
   pp. 163-190 (10 July 2015).
   (Hard Cover: pp. 163-190, ISBN-10: 1634827848 and ISBN-13: 978-1-63482-784-3).
   (ebook: pp. 163-190, ISBN-10: 1634828151 and ISBN-13: 978-1-63482-815-4).

5. Sameen Ahmed Khan,
   International Year of Light and History of Optics,
   Chapter-1 in:
   Advances in Photonics Engineering, Nanophotonics and Biophotonics,
   Editor: Tanya Scott,
   (Nova Science Publishers, New York, 2016, http://www.novapublishers.com/).
   pp. 1-56 (April 2016).
   (Hard Cover: pp. 1-56, ISBN-10: 163484498X and ISBN-13: 978-1-63484-498-7).
   (ebook: pp. 1-56, ISBN-10: 1634845307 and ISBN-13: 978-1-63484-530-4).

C. Refereed Publications

1. Sameen Ahmed Khan,
Wavelength-dependent modifications in Helmholtz Optics,
International Journal of Theoretical Physics, **44**(1), 95-125 (January 2005).
(Kluwer Academic Publishers).
(Digital Object Identifier (**DOI**), http://dx.doi.org/10.1007/s10773-005-1488-0).

2. Sameen Ahmed Khan,
An Exact Matrix Representation of Maxwells Equations,
Physica Scripta, **71**(5), 440-442 (2005).
(http://www.physica.org/).
(Digital Object Identifier (**DOI**), http://dx.doi.org/10.1238/Physica.Regular.071a00440).

3. Sameen Ahmed Khan,
The Foldy-Wouthuysen Transformation Technique in Optics,
Optik-International Journal for Light and Electron Optics, **117**(10), 481-488 (October 2006).
(http://www.elsevier-deutschland.de/ijleo/).
(Digital Object Identifier (**DOI**), http://dx.doi.org/10.1016/j.ijleo.2005.11.010).

4. Sameen Ahmed Khan,
Maxwell Optics of Quasiparaxial Beams,
Optik-International Journal for Light and Electron Optics, **121**(5), 408-416 (March 2010).
(http://www.elsevier-deutschland.de/ijleo/).
(Digital Object Identifier (**DOI**), http://dx.doi.org/10.1016/j.ijleo.2008.07.027).

5. Sameen Ahmed Khan,
Can the Photon Velocity be derived from the Klein-Gordon equation?,
Optik-International Journal for Light and Electron Optics, **122**(15), 1324-1325 (August 2011).
(http://www.elsevier-deutschland.de/ijleo/).
(Digital Object Identifier (**DOI**), http://dx.doi.org/10.1016/j.ijleo.2010.08.016).
(Available online since Saturday the 23 October 2010).

6. Sameen Ahmed Khan,
Farey Sequences and Resistor Networks,
Mathematical Sciences - Proceedings of the Indian Academy of Sciences, **122**(2), 153-182 (May 2012).
(Publication of the Indian Academy of Sciences (**IAS**), Copublished with Springer), (Digital Object Identifier (**DOI**), http://dx.doi.org/10.1007/s12044-012-0066-7);
Larger Version as *E-Print arXiv*: **http://arxiv.org/abs/1004.3346/**.

7. Sameen Ahmed Khan,
Aberrations in Maxwell Optics,
Optik-International Journal for Light and Electron Optics, **125**(3), 968-978 (February 2014).
(http://www.elsevier-deutschland.de/ijleo/).
(Digital Object Identifier (**DOI**), http://dx.doi.org/10.1016/j.ijleo.2013.07.097).
(Available online since Saturday the 09 November 2013).

8. Sameen Ahmed Khan and Farooq Ahmed Khan,
Phenomenon of Motion of Salt along the Walls of the Container,
International Journal of Current Engineering and Technology (**IJCET**), **5**(1), 368-370 (February 2015).
ISSN: 2277-4106 and 2347-5161 (http://inpressco.com/category/ijcet/).
(Digital Object Identifier (**DOI**), http://dx.doi.org/10.14741/Ijcet/22774106/5.1.2015.66

9. Sameen Ahmed Khan,
Primes in Geometric-Arithmetic Progression,
Global Journal of Pure and Applied Mathematics (**GJPAM**), **12**(2), 1161-1180 (March-April 2016).
Print ISSN: 0973-1768 and **Online ISSN:** 0973-9750.
http://www.ripublication.com/gjpam.htm.
E-Print arXiv: **http://arxiv.org/abs/1203.2083**.

10. Sameen Ahmed Khan,
Passage from scalar to vector optics and the Mukunda-Simon-Sudarshan theory for paraxial systems,
Journal of Modern Optics, **63** (17), 1652-1660 (September 2016).
(Taylor & Francis, 2016).
(Digital Object Identifier (**DOI**): http://dx.doi.org/10.1080/09500340.2016.1164257.
(Available online since Friday the 25 March 2016).

11. Sameen Ahmed Khan,
Quantum Methodologies in Helmholtz Optics,
Optik-International Journal for Light and Electron Optics, **127**(20), 9798-9809 (October 2016).
(http://www.elsevier-deutschland.de/ijleo/).
(Digital Object Identifier (**DOI**), http://dx.doi.org/10.1016/j.ijleo.2016.07.071).
(Available online since Tuesday the 26 July 2016).

12. Sameen Ahmed Khan,
Quantum Methods in Light-Beam Optics,
Optics & Photonics News (OPN), **27** (12), pp. 47 (December 2016).
(Monthly, Publication of the Optical Society of America, http://www.osa-opn.org/).
One of the thirty papers selected under the theme, *Optics in 2016*, highlighting the most exciting peer-reviewed optics research to have emerged over the past 12 months.

13. Sameen Ahmed Khan,
Linearization of Wave Equations,
Optik-International Journal for Light and Electron Optics, **131**(C), 350-363 (February 2017).
Elsevier, http://dx.doi.org/10.1016/j.ijleo.2016.11.073.
(Available online since Wednesday the 16 November 2016).

14. Sameen Ahmed Khan,
Polarization in Maxwell Optics,
Optik-International Journal for Light and Electron Optics, **131**, 733-748 (February 2017).
Elsevier, http://dx.doi.org/10.1016/j.ijleo.2016.11.134.
(Available online since Wednesday the 28 November 2016).

15. Ramaswamy Jagannathan and Sameen Ahmed Khan,
Quantum Mechanics of Charged Particle Beam Optics,
(*in preparation*).

16. Sameen Ahmed Khan,

The corrections to the traditional descriptions rigorously derived in the above articles have a significant bearing on the celebrated Scherzer Theorem in the wavelength-dependent regime in electron microscopy and the algebraically equivalent system of fiber optics. An application shall be made for a patent in the near future!

D. E-Prints
http://arXiv.org/

1. Sameen Ahmed Khan,
   The bounds of the set of equivalent resistances of n equal resistors combined in series and in parallel,
   37 pages, *E-Print arXiv*: **http://arxiv.org/abs/1004.3346/**.
   (Wednesday the 21 April 2010).

2. Sameen Ahmed Khan,
   Primes in Geometric-Arithmetic Progression,
   19 pages, *E-Print arXiv*: **http://arxiv.org/abs/1203.2083**.
   (Friday the 09 March 2012).

3. Sameen Ahmed Khan,
   Coordinate Geometric Generalization of the Spherometer and Cylindrometer,
   35 pages, *E-Print archive arXiv*: **http://arxiv.org/abs/1311.3602/**.
   (Thursday the 14 November 2013).

E. Conference Proceedings

1. Sameen Ahmed Khan,
   Quantum Aspects of Charged-Particle Beam Optics,
   in: *Proceedings of the Fifth Saudi International Meeting on Frontiers of Physics 2016*, **SIMFP 2016**, (16-18 February 2016, Department of Physics, Jazan University, Gizan, Saudi Arabia). *Editors*: Ali Al-Kamli, Nurdogan Can, Galib Omar Souadi, Mohamed Fadhali, Abdelrahman Mahdy and Mahmoud Mahgoub,
   AIP Conference Proceedings, 1742, 030008-1–030008-4 (10 June 2016). (American Institute of Physics); Digital Object Identifier (**DOI**), http://dx.doi.org/10.1063/1.4953129.

2. Riti Sethi, Pravin Kumar, Sameen Ahmed Khan, Anver Aziz and Azher M. Siddiqui,
   Effect of Nitrogen Ion Implantation on the Structural and Optical Properties of Indium Oxide Thin Films,
   in: *Proceedings of the Fifth Saudi International Meeting on Frontiers of Physics 2016*, **SIMFP 2016**, (16-18 February 2016, Department of Physics, Jazan University, Gizan, Saudi Arabia). *Editors*: Ali Al-Kamli, Nurdogan Can, Galib Omar Souadi, Mohamed Fadhali, Abdelrahman Mahdy and Mahmoud Mahgoub,
   AIP Conference Proceedings, 1742, 030016-1–030016-5 (10 June 2016). (American Institute of Physics); Digital Object Identifier (**DOI**), http://dx.doi.org/10.1063/1.4953137.

F. Expository Publications

1. Fathiya Khamis Al Rawahi, Sameen Ahmed Khan and Abdul Huq,
Microsoft Excel in the Mathematics Classroom: A Case Study,
in *Proceedings* of **The Second Annual Conference for Middle East Teachers of Mathematics, Science and Computing** (**METSMaC 2006**), The Petroleum Institute, Abu Dhabi, United Arab Emirates, 14-16 March 2006. *Editors*: Seán M. Stewart, Janet E. Olearski and Douglas Thompson, pp. 131-134 (2006).

2. Sameen Ahmed Khan,
Microsoft Excel in the Physics Classroom,
in *Proceedings* of **The Third Annual Conference for Middle East Teachers of Mathematics, Science and Computing** (**METSMaC 2007**),
The Petroleum Institute, Abu Dhabi, United Arab Emirates, 17-19 March 2007.
Editors: Seán M. Stewart, Janet E. Olearski, Peter Rodgers, Douglas Thompson and Emer A. Hayes, pp. 171-175 (2007).

3. Sameen Ahmed Khan,
Data Analysis Using Microsoft Excel in the Physics Laboratory,
Bulletin of the IAPT, **24**(6), 184-186 (June 2007).
(**IAPT**: Indian Association of Physics Teachers).

4. Sameen Ahmed Khan,
Cylindro-Spherometer,
Bulletin of the IAPT, **26**(1), 4-6 (January 2009).
(**IAPT**: Indian Association of Physics Teachers).

5. Sameen Ahmed Khan,
Quadratic Surfaces in Science and Engineering,
Bulletin of the IAPT, **Volume 2**(11), 327-330 (November 2010).
(**IAPT**: Indian Association of Physics Teachers).

6. Sameen Ahmed Khan,
Cylindrometer,
The Physics Teacher, **48**(9), 607 (December 2010).
(**AAPT**: American Association of Physics Teachers).
(Digital Object Identifier (**DOI**), http://dx.doi.org/10.1119/1.3517029).

7. Sameen Ahmed Khan,
Speed of Sound in Air at varying Temperatures,
Bulletin of the IAPT, **4**(5), 116-117 (May 2012).
(**IAPT**: Indian Association of Physics Teachers).

8. Sameen Ahmed Khan,
How many equivalent resistances?,
Resonance Journal of Science Education, **17**(5), 468-475 (May 2012).
(Monthly Publication of the Indian Academy of Sciences (**IAS**), Copublished with Springer), (Digital Object Identifier (**DOI**), http://dx.doi.org/10.1007/s12045-012-0050-7);
Larger Version as *E-Print arXiv*: **http://arxiv.org/abs/1004.3346/**.

9. Sameen Ahmed Khan,
Floating Ring Magnets,
Bulletin of the IAPT, **4**(6), 145 (June 2012).
(**IAPT**: Indian Association of Physics Teachers).

10. Sameen Ahmed Khan,
Coordinate Geometric Approach to Spherometer,
Bulletin of the IAPT, **5**(6), 139-142 (June 2013).
(**IAPT**: Indian Association of Physics Teachers).
E-Print arXiv: **http://arxiv.org/abs/1309.1951/**.

11. Sameen Ahmed Khan,
Set Theoretic approach to Resistor Networks,
Physics Education, **29** (4), Article Number: 5 (October-December 2013).
(Quarterly e-Journal devoted to Physics Pedagogy, by IAPT).
(**IAPT**: Indian Association of Physics Teachers).

12. Sameen Ahmed Khan,
Beginning to count the Number of Equivalent Resistances,
Indian Journal of Science and Technology (**INDJST**), **9**(44), 1-7 (November 2016).
Digital Object Identifier (**DOI**): http://dx.doi.org/10.17485/ijst/2016/v9i44/88086.
Print ISSN: 0974-6846 and **Online ISSN:** 0974-5645, http://www.indjst.org/

13. Sameen Ahmed Khan,
Doing Numerical Calculus using Microsoft EXCEL,
Indian Journal of Science and Technology (**INDJST**), **9**(44), 1-5 (November 2016).
Digital Object Identifier (**DOI**): http://dx.doi.org/10.17485/ijst/2016/v9i44/87217.
Print ISSN: 0974-6846 and **Online ISSN:** 0974-5645, http://www.indjst.org/

14. Sameen Ahmed Khan,
Sonometer,
(*in preparation*).

Integer Sequences

http://NeilSloane.com/
http://oeis.org/
http://www.oeisf.org/

http://SameenAhmedKhan.webs.com/integer-sequences.html

The set of equivalent resistances formed by any conceivable network (series/parallel or bridge, or non-planar configurations) of n equal resistors has over twenty Integer Sequences associated with it. Ten new Integer Sequences occurring in the following article are listed below:

1. Sameen Ahmed Khan,
   The bounds of the set of equivalent resistances of n equal resistors combined in series and in parallel,
   37 pages, *E-Print arXiv*: **http://arxiv.org/abs/1004.3346/**.
   (Wednesday the 21 April 2010).

2. Sameen Ahmed Khan,
   Farey Sequences and Resistor Networks,
   Mathematical Sciences - Proceedings of the Indian Academy of Sciences, **122**(2), 153-182 (May 2012).
   (Monthly Publication of the Indian Academy of Sciences (**IAS**), Copublished with Springer), (Digital Object Identifier (**DOI**), http://dx.doi.org/10.1007/s12044-012-0066-7);
   Larger Version as *E-Print arXiv*: **http://arxiv.org/abs/1004.3346/**.

3. Sameen Ahmed Khan,
   How many equivalent resistances?,
   Resonance Journal of Science Education, **17**(5), 468-475 (May 2012).
   (Monthly Publication of the Indian Academy of Sciences (**IAS**), Copublished with Springer), (Digital Object Identifier (**DOI**), http://dx.doi.org/10.1007/s12045-012-0050-7);
   Larger Version as *E-Print arXiv*: **http://arxiv.org/abs/1004.3346/**.

4. Sameen Ahmed Khan,
   Number Theory and Resistor Networks,
   Chapter-5 in:
   Resistors: Theory of Operation, Behavior and Safety Regulations,
   Editor: Roy Abi Zeid Daou,
   (Nova Science Publishers, New York, 2013, http://www.novapublishers.com/).
   pp. 99-154 (May 2013).
   (Hard Cover: pp. 99-154, ISBN-10: 1622577884 and ISBN-13: 978-1-62257-788-0).
   (ebook: pp. ???-???, ISBN-10: 1626187959 and ISBN-13: 978-1-62618-795-5).

5. Sameen Ahmed Khan,
   Set Theoretic approach to Resistor Networks,
   Physics Education, **29** (4), Article Number: 5 (October-December 2013).
   (Quarterly e-Journal devoted to Physics Pedagogy, by IAPT).
   (**IAPT**: Indian Association of Physics Teachers).

1. Sameen Ahmed Khan,
   Sequence A174283: 1, 2, 4, 9, 23, 57, 151, 409, ...,
   Order of the Set of distinct resistances that can be produced using n equal resistors in, series, parallel and/or bridge configurations,
   N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
   published electronically at: **http://oeis.org/A174283**
   (Monday the 15 March 2010).

2. Sameen Ahmed Khan,
Sequence A174284: 1, 3, 7, 15, 35, 79, 193, 489, ...,
Order of the Set of distinct resistances that can be produced using at most n equal resistors (n or fewer resistors) in series, parallel and/or bridge configurations,
N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at: **http://oeis.org/A174284**
(Monday the 15 March 2010).

3. Sameen Ahmed Khan,
Sequence A174285: 0, 0, 0, 0, 1, 3, 17, 53, ...,
Order of the Set of distinct resistances that can be produced using n equal resistors in, series and/or parallel, confined to the five arms (four arms and the diagonal) of a bridge configuration,
N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at: **http://oeis.org/A174285**
(Monday the 15 March 2010).

4. Sameen Ahmed Khan,
Sequence A174286: 0, 0, 0, 0, 1, 3, 19, 67, ...,
Order of the Set of distinct resistances that can be produced using at most n equal resistors (n or fewer resistors) in, series and/or parallel, confined to the five arms (four arms and the diagonal) of a bridge configuration,
N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at: **http://oeis.org/A174286**
(Monday the 15 March 2010).

5. Sameen Ahmed Khan,
Sequence A176497: 0, 0, 0, 1, 4, 9, 25, 75, 195, 475, 1265, 3135, 7983, 19697, 50003, 126163, 317629, 802945, 2035619, 5158039, 13084381, 33240845, 84478199, ...,
Order of the Cross Set which is the subset of the set of distinct resistances that can be produced using n equal resistors in series and/or parallel,
N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at: **http://oeis.org/A176497**
(Wednesday the 21 April 2010).

6. Sameen Ahmed Khan,
Sequence A176498: 0, 0, 0, 0, 0, 0, 0, 0, 1, 6, 9, 24, 58, 124, 312, ...,
Number of elements less than half in the Cross Set which is the subset of the set of distinct resistances that can be produced using n equal resistors in series and/or parallel,
N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at: **http://oeis.org/A176498**
(Wednesday the 21 April 2010).

7. Sameen Ahmed Khan,
Sequence A176499: 2, 3, 5, 11, 23, 59, 141, 361, 941, 2457, 6331, 16619, 43359, 113159, 296385, 775897, 2030103, 5315385, 13912615, 36421835, 95355147, 249635525, 653525857, 1710966825, 4479358275, 11726974249, 30701593527, 80377757397, 210431301141, ...,
Haros-Farey Sequence whose argument is the Fibonacci Number; Farey(m) where m = Fibonacci (n + 1),
N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at: **http://oeis.org/A176499**
(Wednesday the 21 April 2010).

8. Sameen Ahmed Khan,
Sequence A176500: 1, 3, 7, 19, 43, 115, 279, 719, 1879, 4911, 12659, 33235, 86715, 226315, 592767, 1551791, 4060203, 10630767, 27825227, 72843667, 190710291, 499271047, 1307051711, 3421933647, 8958716547, 23453948495, 61403187051, 160755514791, 420862602279, ...,
2Farey(m) - 3 where m = Fibonacci (n + 1),
N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at: **http://oeis.org/A176500**
(Wednesday the 21 April 2010).

9. Sameen Ahmed Khan,
Sequence A176501: 1, 2, 4, 9, 19, 50, 122, 317, 837, 2213, 5758, 15236, 40028, 105079, 276627, 727409, 1910685, 5020094, ...,
Farey(m; I) where m = Fibonacci (n + 1) and I = [1/n, 1],
N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at: **http://oeis.org/A176501**
(Wednesday the 21 April 2010).

10. Sameen Ahmed Khan,
Sequence A176502: 1, 3, 7, 17, 37, 99, 243, 633, 1673, 4425, 11515, 30471, 80055, 210157, 553253, 1454817, 3821369, 10040187, ...,
2Farey(m; I) - 1 where m = Fibonacci (n + 1) and I = [1/n, 1],
N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at: **http://oeis.org/A176502**
(Wednesday the 21 April 2010).

Integer Sequences for the difference for Primes in Arithmetic Progression with the minimal start Sequence $\{p_1 + jd\}_{j=0}^{j=k-1}$

11. Sameen Ahmed Khan,
Sequence A206037: 2, 4, 8, 10, 14, 20, 28, 34, 38, 40, 50, 64, 68, 80, 94, 98, 104, 110, 124, 134, 154, 164, 178, 188, 190, 208, 220, 230, 238, 248, ...,
Values of the difference d for 3 primes in arithmetic progression with the minimal start sequence $\{3 + j * d\}$, $j = 0$ to 2.,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A206037**
(Friday the 03 February 2012).

12. Sameen Ahmed Khan,
Sequence A206038: 6, 12, 18, 42, 48, 54, 84, 96, 126, 132, 252, 348, 396, 426, 438, 474, 594, 636, 642, 648, 678, 804, 858, 1176, 1218, 1272, 1302, 1314, 1362, 1428, ...,
Values of the difference d for 4 primes in arithmetic progression with the minimal start sequence $\{5 + j * d\}$, $j = 0$ to 3.,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A206038**
(Friday the 03 February 2012).

13. Sameen Ahmed Khan,
Sequence A206039: 6, 12, 42, 48, 96, 126, 252, 426, 474, 594, 636, 804, 1218, 1314, 1428, 1566, 1728, 1896, 2106, 2574, 2694, 2898, 3162, 3366, 4332, 4368, 4716, 4914, 4926, ...,
Values of the difference d for 5 primes in arithmetic progression with the minimal start sequence $\{5 + j * d\}$, $j = 0$ to 4.,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A206039**
(Friday the 03 February 2012).

14. Sameen Ahmed Khan,
Sequence A206040: 30, 150, 930, 2760, 3450, 4980, 9150, 14190, 19380, 20040, 21240, 28080, 33930, 57660, 59070, 63600, 69120, 76710, 80340, 81450, 97380, 100920, 105960, ...,
Values of the difference d for 6 primes in arithmetic progression with the minimal start sequence $\{7 + j * d\}$, $j = 0$ to 5.,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A206040**
(Friday the 03 February 2012).

15. Sameen Ahmed Khan,
Sequence A206041: 150, 2760, 3450, 9150, 14190, 20040, 21240, 63600, 76710, 117420, 122340, 134250, 184470, 184620, 189690, 237060, 274830, 312000, 337530, 379410, ...,
Values of the difference d **for** 7 **primes in arithmetic progression with the minimal start sequence** $\{7 + j * d\},\ j = 0$ to 6**.**,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A206041**
(Friday the 03 February 2012).

16. Sameen Ahmed Khan,
Sequence A206042: 1210230, 2523780, 4788210, 10527720, 12943770, 19815600, 22935780, 28348950, 28688100, 32671170, 43443330, 47330640, 51767520, 54130440, ...,
Values of the difference d **for** 8 **primes in arithmetic progression with the minimal start sequence** $\{11 + j * d\},\ j = 0$ to 7**.**,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A206042**
(Friday the 03 February 2012).

17. Sameen Ahmed Khan,
Sequence A206043: 32671170, 54130440, 59806740, 145727400, 224494620, 246632190, 280723800, 301125300, 356845020, 440379870, 486229380, 601904940, 676987920, ...,
Values of the difference d **for** 9 **primes in arithmetic progression with the minimal start sequence** $\{11 + j * d\},\ j = 0$ to 8**.**,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A206043**
(Friday the 03 February 2012).

18. Sameen Ahmed Khan,
Sequence A206044: 224494620, 246632190, 301125300, 1536160080, 1760583300, 4012387260, 4911773580, 7158806130, 8155368060, 15049362300, 15908029410, ...,
Values of the difference d **for** 9 **primes in arithmetic progression with the minimal start sequence** $\{11 + j * d\},\ j = 0$ to 9**.**,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A206044**
(Friday the 03 February 2012).

19. Sameen Ahmed Khan,
Sequence A206045: 1536160080, 4911773580, 25104552900, 77375139660, 83516678490, 100070721660, 150365447400, 300035001630, 318652145070, 369822103350, 377344636200, 511688932650, ...,
Values of the difference d **for** 11 **primes in arithmetic progression with the minimal start sequence** $\{11 + j * d\},\ j = 0$ to 10**.**,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A206045**
(Friday the 03 February 2012).

Integer Sequences for the difference for Primes in Geometric-Arithmetic Progression with the minimal start and minimal ratio Sequence $\{p * p^n + jd\}_{j=0}^{j=k-1}$

- Sameen Ahmed Khan,
  Primes in Geometric-Arithmetic Progression,
  Global Journal of Pure and Applied Mathematics (**GJPAM**), **12**(2), 1161-1180 (March-April 2016).
  Print ISSN: 0973-1768 and **Online ISSN:** 0973-9750.
  http://www.ripublication.com/gjpam.htm.
  E-Print arXiv: **http://arxiv.org/abs/1203.2083**.

20. Sameen Ahmed Khan,
    Sequence A209202: 2, 8, 10, 20, 22, 28, 38, 50, 52, 62, 70, 92, 98, 100, 118, 122, 128, 140, 142, 170, 202, 218, 220, 230, 232, 248, 260, 268, 272, 302, ...,
    Values of the difference d for the geometric-arithmetic progression $\{3 * 3^j + jd\}_{j=0}^{2}$ to be a set of 3 primes,
    in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
    published electronically at **http://oeis.org/A209202**
    (Tuesday the 06 March 2012).

21. Sameen Ahmed Khan,
    Sequence A209203: 6, 12, 16, 28, 34, 36, 54, 76, 78, 84, 114, 124, 132, 138, 142, 148, 154, 166, 168, 208, 226, 258, 268, 288, 324, 348, 376, 414, 436, 442, ...,
    Values of the difference d for the geometric-arithmetic progression $\{5 * 5^j + jd\}_{j=0}^{3}$ to be a set of 4 primes,
    in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
    published electronically at **http://oeis.org/A209203**
    (Tuesday the 06 March 2012).

22. Sameen Ahmed Khan,
    Sequence A209204: 84, 114, 138, 168, 258, 324, 348, 462, 552, 588, 684, 714, 744, 798, 882, 894, 972, 1176, 1602, 1734, 2196, 2256, 2442, 2478, 2568, 2646, ...,
    Values of the difference d for the geometric-arithmetic progression $\{5 * 5^j + jd\}_{j=0}^{4}$ to be a set of 5 primes,
    in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
    published electronically at **http://oeis.org/A209204**
    (Tuesday the 06 March 2012).

23. Sameen Ahmed Khan,
    Sequence A209205: 144, 1494, 1740, 2040, 3324, 4044, 6420, 12804, 13260, 13464 13620, 15444, 25824, 31524, 31674, 31680, 32124, 33720, 38064, 40410, ...,
    Values of the difference d for the geometric-arithmetic progression $\{7 * 7^j + jd\}_{j=0}^{5}$ to be a set of 6 primes,
    in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
    published electronically at **http://oeis.org/A209205**
    (Tuesday the 06 March 2012).

24. Sameen Ahmed Khan,
    Sequence A209206: 3324, 13260, 38064, 46260, 51810, 54510, 58914, 76050, 81510, 82434, 109800, 119340, 120714, 132390, 141480, 154254, 167904, 169734, 185040, ...,
    Sameen Ahmed Khan, **Values of the difference d for the geometric-arithmetic progression $\{7 * 7^j + jd\}_{j=0}^{6}$ to be a set of 7 primes**,
    in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
    published electronically at **http://oeis.org/A209206**
    (Tuesday the 06 March 2012).

25. Sameen Ahmed Khan,
Sequence A209207: 62610, 165270, 420300, 505980, 669780, 903030, 932400, 1004250, 1052610, 1093080, 1230270, 1231020, 1248120, . . . ,
Values of the difference d for the geometric-arithmetic progression $\{11 * 11^j + jd\}_{j=0}^{7}$ to be a set of 8 primes,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A209207**
(Tuesday the 06 March 2012).

26. Sameen Ahmed Khan,
Sequence A209208: 903030, 1004250, 3760290, 7296450, 7763520, 17988210, 28962390, 29956950, 33316320, 37265160, 39013800, 39768150, 43920480, 50110620, 54651480, 56388810, 74306610, 74679810, 75911850, 89115210, 92619690, 98518800, . . . ,
Values of the difference d for the geometric-arithmetic progression $\{11 * 11^j + jd\}_{j=0}^{8}$ to be a set of 9 primes,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A209208**
(Tuesday the 06 March 2012).

27. Sameen Ahmed Khan,
Sequence A209209: 903030, 17988210, 28962390, 39768150, 74306610, 89115210, 116535300, 173227980, 186013380, 237952050, 359613030, 386317920, 392253990, 443687580, 499153200, 548024610, 591655080, . . . ,
Values of the difference d for the geometric-arithmetic progression $\{11 * 11^j + jd\}_{j=0}^{9}$ to be a set of 10 primes,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A209209**
(Tuesday the 06 March2012).

28. Sameen Ahmed Khan,
Sequence A209210: 443687580, 591655080, 1313813550, 2868131100, 3525848580, 3598823970, 4453413120, 6075076800, 6644124480, 7429693770, 9399746580, . . . ,
Values of the difference d for the geometric-arithmetic progression $\{11 * 11^j + jd\}_{j=0}^{10}$ to be a set of 11 primes,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A209210**
(Tuesday the 06 March 2012).

29. Sameen Ahmed Khan,
Sequence A227280: 81647160420, 170655787050, 211212209880, 227961624450, . . . ,
Values of the difference d for 12 primes in geometric-arithmetic progression with the minimal sequence $\{13 * 13^j + j * d\}_{j=0}^{j=11}$,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A227280**
(Friday the 05 July 2013).

Integer Sequences for the First primes of arithmetic progressions of k primes each with the common difference $k\#$ Minimal Difference Sequence $\{p_1 + j * (k\#)\}_{j=0}^{j=k-1}$

30. Sameen Ahmed Khan,
Sequence A227281: 7, 11, 37, 107, 137, 151, 277, 359, 389, 401, 541, 557, 571, 877, 1033, 1493, 1663, 2221, 2251, 2879, 3271, 6269, 6673, 6703, 7457, 7487, 9431, 10103, 10133, 10567, 11981, 12457, 12973, 14723, 17047, 19387, 24061, 25643, 25673, 26861, 26891, 27337, ...,
First primes of arithmetic progressions of 5 primes each with the common difference 30,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A227281**
(Friday the 05 July 2013).

31. Sameen Ahmed Khan,
Sequence A227282: 47, 179, 199, 409, 619, 829, 881, 1091, 1453, 3499, 3709, 3919, 10529, 10627, 10837, 10859, 11069, 11279, 14423, 20771, 22697, 30097, 30307, 31583, 31793, 32363, 41669, 75703, 93281, 95747, 120661, 120737, 120871, 120947, 129287, 140603, 153319, ...,
First primes of arithmetic progressions of 7 primes each with the common difference 210,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A227282**
(Friday the 05 July 2013).

32. Sameen Ahmed Khan,
Sequence A227283: 199, 409, 619, 881, 3499, 3709, 10627, 10859, 11069, 30097, 31583, 120661, 120737, 153319, 182537, 471089, 487391, 564973, 565183, 825991, 1010747, 1280623, 1288607, 1288817, 1302281, 1302491, 1395209, 1982599, 2358841, 2359051, 2439571, ...,
First primes of arithmetic progressions of 8 primes each with the common difference 210,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A227283**
(Friday the 05 July 2013).

33. Sameen Ahmed Khan,
Sequence A227284: 199, 409, 3499, 10859, 564973, 1288607, 1302281, 2358841, 3600521, 4047803, 17160749, 20751193, 23241473, 44687567, 50655739, 53235151, 87662609, 100174043, 103468003, 110094161, 180885839, 187874017, 192205147, 221712811, 243051733, ...,
First primes of arithmetic progressions of 9 primes each with the common difference 210,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A227284**
(Friday the 05 July 2013).

34. Sameen Ahmed Khan,
Sequence A227285: 60858179, 186874511, 291297353, 1445838451, 2943023729, 4597225889, 7024895393, 8620560607, 8656181357, 19033631401, 20711172773, 25366690189, 27187846201, 32022299977, 34351919351, ...,
First primes of arithmetic progressions of 11 primes each with the common difference 2310,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A227285**
(Friday the 05 July 2013).

35. Sameen Ahmed Khan,
Sequence A227286: 14933623, 2085471361, ...,
First primes of arithmetic progressions of 13 primes each with the common difference 30030,
in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at **http://oeis.org/A227286**
(Friday the 05 July 2013).

Non-Technical Writings[†] (Popular Writings)

A. Books

- Sameen Ahmed Khan,
  International Year of Light and Light-based Technologies,
  LAMBERT Academic Publishing, Germany (Thursday the 30 July 2015),
  96 pages. http://www.lap-publishing.com/, http://isbn.nu/9783659764820/.
  ISBN-13: 978-3-659-76482-0 and **ISBN-10:** 3659764825.

B. Book Chapters

- Sameen Ahmed Khan,
  International Year of Light and History of Optics,
  Chapter-1 in:
  Advances in Photonics Engineering, Nanophotonics and Biophotonics, Volume 10
  Editor: Tanya Scott,
  (Nova Science Publishers, New York, 2016, http://www.novapublishers.com/).
  pp. 1-56 (April 2016).
  (Hard Cover: pp. 1-56, ISBN-10: 163484498X and ISBN-13: 978-1-63484-498-7).
  (ebook: pp. 1-56, ISBN-10: 1634845307 and ISBN-13: 978-1-63484-530-4).

C. Letters & Articles

1. Sameen Ahmed Khan and Azher Majid Siddiqui,
   A German Synchrotron Radiation Facility for the Middle East,
   Renaissance, Vol. **14**, No. 2, pp. 37-40 (February 2004).
2. Sameen Ahmed Khan,
   SESAME Synchrotron-Light for Experimental Science and Applications in the Middle East,
   Islamic Voice, Vol. **17-03** No. 207, pp. 20 (March 2004, Muharram-Safar 1425).
3. Sameen Ahmed Khan,
   E-Learning Challenges in the Middle East.
   in Proceedings of the International Conference in E-Business
   E-Business in GCC Challenges and Prospects (**EGCC'04**),
   (19 May 2004, Majan College (University College), Muscat, Sultanate of Oman).
4. Sameen Ahmed Khan,
   Need to Create Science Centres in the Muslim World,
   Young Muslim Digest, **26**(7), pp. 13-16 (September 2004).
5. Sameen Ahmed Khan,
   The Plague of Spam: The Unsolicited E-Mails,
   Youth Observer, **Vol. No. 3**, pp. 11 (November 2004 - Ramadhan 1425).
   Supplement to *Oman Observer*, **Vol. 23, No. 358**, (Saturday the 06 November 2004).
   (**OEPNPA**: Oman Establishment for Press, News, Publication and Advertising in co-operation with the Ministry of Education).
6. *Reported by* Sameen Ahmed Khan,
   Oman Issues Stamp in Braille,
   Islamic Voice, Vol. **17-11, No. 215**, pp. 3 (November 2004).

[†]This List is Incomplete!

7. (a) Sameen Ahmed Khan,
   Joint visits to CERN with SESAME,
   Letter in *CERN Courier*, **44**(10), 34 (December 2004).
   (**CERN**: European Organization for Nuclear Research).

   (b) Sameen Ahmed Khan,
   Des séjours au CERN avec SESAME,
   Lettres in *Courrier CERN*, **44**(10), 34 (Décembre 2004).

8. Sameen Ahmed Khan,
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2015 UNESCO Sultan Qaboos Prize for Environmental Preservation,
Current Science, **110** (1), 15 (10 January 2016).
(Fortnightly Publication of the Indian Academy of Sciences).
The Prizes are awarded every two years http://un-qaboos-prize.net/.

153. (a) Sameen Ahmed Khan,
2015 UNESCO Sultan Qaboos Prize for Environmental Preservation,
Radiance Viewsweekly, **Vol. LIII**, No. 43, pp. 13-14 (24-30 January 2016).
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(b) Sameen Ahmed Khan,
2015 UNESCO Sultan Qaboos Prize for Environmental Preservation,
BaKhabar, **9** (02), 24-25 (February 2016).
Published by Bihar Anjuman, http://bakhabar.biharanjuman.org/.
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154. (a) Sameen Ahmed Khan,
Iran Launches the Mustafa Prize the Muslim Nobel Prize,
BaKhabar, **9** (02), 5-6 (February 2016).
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(b) Sameen Ahmed Khan,
Iran Launches Mustafa Prize,
Radiance Viewsweekly, **Vol. LIII**, No. 45, pp. ??-?? (0713 February 2016).
The Prizes are awarded in alternate years by the Government of Iran, http://mustafaprize.org/.

155. (a) Sameen Ahmed Khan,
King Faisal International Prizes for 2016,
BaKhabar, **9** (02), 29-32 (February 2016).
Published by Bihar Anjuman, http://bakhabar.biharanjuman.org/.

(b) Sameen Ahmed Khan,
King Faisal International Prizes for 2016,
Radiance Viewsweekly, **Vol. LIII**, No. 47, pp. ??-?? (21-27 February 2016).
The Prizes are awarded every year by the King Faisal Foundation (**KFF**), Saudi Arabia.

156. (a) Sameen Ahmed Khan,
Introspecting on the International Year of Light,
BaKhabar, **9** (03), 7-10 (March 2016).
Published by Bihar Anjuman, http://bakhabar.biharanjuman.org/.

(b) Sameen Ahmed Khan,
Introspecting on the International Year of Light,
Radiance Viewsweekly, **Vol. LIV**, No. 1, pp. ??-?? (03-09 April 2016).

157. (a) Sameen Ahmed Khan,
Report: Second National Urdu Science Congress,
(*Report* of the Second National Urdu Science Congress, 20-21 February 2016, Aligarh, India),
BaKhabar, **9** (03), 17-19 (March 2016).
Published by Bihar Anjuman, http://bakhabar.biharanjuman.org/.

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(*Report* of the Second National Urdu Science Congress, 20-21 February 2016, Aligarh, India),
Radiance Viewsweekly, **Vol. LIII**, No. 49, pp. ??-?? (06-12 March 2016).

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Iran Launches the Mustafa Prize for Sciences,
Current Science, **110** (6), 961 (25 March 2016).
(Fortnightly Publication of the Indian Academy of Sciences).
The Prizes are awarded in alternate years by the Government of Iran, http://mustafaprize.org/.

159. Sameen Ahmed Khan,
Medieval Arab Contributions to Optics,
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(Available online since Thursday the 25 February 2016).

160. (a) Hajira Khan and Sameen Ahmed Khan,
Better Health with Honey,
Radiance Viewsweekly, **Vol. LIV**, No. 1, pp. ??-?? (03-09 April 2016).

(b) Hajira Khan and Sameen Ahmed Khan,
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BaKhabar, **9** (05), 31-32 (May 2016).
Published by Bihar Anjuman, http://bakhabar.biharanjuman.org/.

161. Sameen Ahmed Khan,
2016 King Faisal International Prize for Science and Medicine,
Current Science, **110** (7), 1140-1141 (10 April 2016).
(Fortnightly Publication of the Indian Academy of Sciences).
The Prizes are awarded every year by the King Faisal Foundation (**KFF**), Saudi Arabia.

162. Hajira Khan and Sameen Ahmed Khan,
Date Palm Revisited,
Research Journal of Pharmaceutical, Biological and Chemical Sciences (**RJPBCS**), **7**(3), 2010-2019 (May-June 2016).
ISSN: 0975-8585; http://www.rjpbcs.com/.

163. Hajira Khan and Sameen Ahmed Khan,
Blessed Tree of Olive,
Asian Journal of Pharmaceutical and Clinical Research (**AJPCR**), **9**(3), 32-34 (May-June 2016).
Print ISSN: 09742441 and **Online ISSN:** 24553891.
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164. Sameen Ahmed Khan,
Predhiman Krishan Kaw bags the 2015 Subrahmanyan Chandrasekhar Prize of Plasma Physics,
Current Science, **111** (03), 458 (10 August 2016).
(Fortnightly Publication of the Indian Academy of Sciences).
The Prize is awarded by the Division of Plasma Physics under Association of Asia Pacific Physical Societies.

165. Sameen Ahmed Khan,
Reflecting on the International Year of Light and Light-based Technologies,
Current Science, **111** (04), 627-631 (25 August 2016).
(Fortnightly Publication of the Indian Academy of Sciences).

166. (a) Sameen Ahmed Khan,
Ahmed Hassan Zewail (1946-2016),
Radiance Viewsweekly, **Vol. LIV**, No. 22, pp. ??-?? (28 August - 03 September 2016).

(b) Sameen Ahmed Khan,
Life and Times of Ahmed Hassan Zewail,
BaKhabar, **9** (09), 3-4 (September 2016).
Published by Bihar Anjuman, http://bakhabar.biharanjuman.org/.

(c) Sameen Ahmed Khan,
Nobel Prize Chemist Ahmed Hassan Zewail Dies,
Pakistan Link, **Vol. 26/38**, pp. ??? (Friday the 02 September 2016, 30 Dhul-qi'dah 1437).
(Published from Irvine, California, USA).

167. Sameen Ahmed Khan,
Ahmed Hassan Zewail (19462016),
Current Science, **111** (05), 936-937 (10 September 2016).
(Fortnightly Publication of the Indian Academy of Sciences).

168. (a) Sameen Ahmed Khan,
Prof Niyaz Ahmed Wins Prestigious Prize in Medical Sciences,
Pakistan Link, **Vol. 26/40**, pp. ??? (Friday the 30 September 2016, 28 Dhul-Hijjah 1437).
(Published from Irvine, California, USA).

(b) Sameen Ahmed Khan,
Niyaz Ahmed Conferred the Shanti Swarup Bhatnagar Prize in Medical Sciences,
BaKhabar, **9** (10), 19-20 (October 2016).
Published by Bihar Anjuman, http://bakhabar.biharanjuman.org/.

(c) Sameen Ahmed Khan,
Niyaz Ahmed Conferred the Shanti Swarup Bhatnagar Prize in Medical Sciences,
Islamic Voice, **28-10**, No. 358, pp. 15 (October 2016, Zeehijja/Muharram 1438 H).

(d) Sameen Ahmed Khan,
Niyaz Ahmed Conferred Shanti Swarup Bhatnagar Prize in Medical Sciences,
Radiance Viewsweekly, **Vol. LIV**, No. 28, pp. ??-?? (09-15 October 2016).

169. (a) Hajira Khan and Sameen Ahmed Khan,
Our Multiplication Tables,
Radiance Viewsweekly, **Vol. LIV**, No. 31, pp. ??-?? (30 October - 05 November 2016).

(b) Hajira Khan and Sameen Ahmed Khan,
Multiplication Table,
BaKhabar, **9** (11), 16-17 (November 2016).
Published by Bihar Anjuman, http://bakhabar.biharanjuman.org/.

170. Sameen Ahmed Khan,
Beginning to count the Number of Equivalent Resistances,
Indian Journal of Science and Technology (**INDJST**), **9**(44), 1-7 (November 2016).
Digital Object Identifier (**DOI**): http://dx.doi.org/10.17485/ijst/2016/v9i44/88086.
Print ISSN: 0974-6846 and **Online ISSN:** 0974-5645, http://www.indjst.org/

171. Sameen Ahmed Khan,
Doing Numerical Calculus using Microsoft EXCEL,
Indian Journal of Science and Technology (**INDJST**), **9**(44), 1-5 (November 2016).
Digital Object Identifier (**DOI**): http://dx.doi.org/10.17485/ijst/2016/v9i44/87217.
Print ISSN: 0974-6846 and **Online ISSN:** 0974-5645, http://www.indjst.org/

172. Sameen Ahmed Khan,
Need to Create Regional Science Centres in the Developing Countries,
For the *Proceedings* of **Higher Education in Developing Countries: With a Focus on Muslim Contexts**, The Aga Khan University Institute for the Study of Muslim Civilisations, (**AKU-ISMC**), (24-25 February 2005, London, UK).
10 pages (*communicated*).

173. Sameen Ahmed Khan,
E-Learning Challenges and Prospects in the Middle East,
The Online Virtual Conference of the **World Forum on Information Society** (**WFIS**), (31 March - 13 November 2005), *Pre-Cursor* to the **IRFD World Forum 2005**, 14-16 November
Conference on Digital Divide, Global Development and the Information Society,
Organized by **United Nations World Summit on the Information Society**,
Tunis, Tunisia.
(**IRFD**: International Research Foundation for Development).
06 pages (*submitted*).

174. Sameen Ahmed Khan,
Solar Cells Technology bags the 2015 King Faisal International Prize,
(*in preparation*).

175. Sameen Ahmed Khan,
Medieval Arab Contributions to Optics;
Medieval Arab Contributions to Physics;
Medieval Arab Contributions to Mathematics.
(*in preparation*).

176. Sameen Ahmed Khan,
ICTP Golden Jubilee Celebrations,
(*in preparation*).
ICTP the The Abdus Salam International Centre for Theoretical Physics is located in Trieste the Science City in Italy.

177. Sameen Ahmed Khan,
Sonometer,
(*in preparation*).

178. Azher Majid Siddiqui and Sameen Ahmed Khan,
Introduction to Ion Beam Channeling.
(*in preparation*).

179. Sameen Ahmed Khan,
Set Theoretic properties of Resistor Networks.

In March 2005, I was appointed as the *Regular Correspondent* for the ICFA Beam Dynamics Panel Newsletters, for the regions of Middle East & Africa. ICFA, the International Committee for Future Accelerators, provides a forum to discuss and implement plans for further promoting collaborative accelerator-based science. Its primary purpose is to strengthen collaboration in accelerator-based science, to encourage future projects, and to make recommendations to governments. Further details at:

http://icfa-usa.jlab.org/archive/newsletter.shtml

Participation in Conferences & Visits to Institutions

1. 19 May 2004
   International Conference in E-Business
   E-Business in GCC Challenges and Prospects (**EGCC'04**),
   Majan College (University College)
   Muscat, Sultanate of Oman.
   Presentation: **E-Learning Challenges in the Middle East**.
2. 23-30 August 2004
   The Institute of Mathematical Sciences (**IMSc/Matscience**),
   Chennai (Madras), India.
3. 24-25 February 2005
   Higher Education in Developing Countries: With a Focus on Muslim Contexts,
   The Aga Khan University Institute for the Study of Muslim Civilisations (**AKU-ISMC**), London, UK.
   Talk: **Need to Create Regional Science Centres in the Developing Countries**.
4. 31 March - 13 November 2005
   The Online Virtual Conference of the **World Forum on Information Society** (**WFIS**),
   Pre-Cursor to the **IRFD World Forum 2005**
   14-16 November
   Conference on Digital Divide, Global Development and the Information Society,
   Organized by **United Nations World Summit on the Information Society**,
   Tunis, Tunisia.
   (**IRFD**: International Research Foundation for Development).
   Presentation: **E-Learning Challenges and Prospects in the Middle East**.
5. 08-09 May 2005
   ICT 2005: The business value of IT
   Muscat, Sultanate of Oman.
6. 31 October - 02 November 2005
   World Conference on Physics and Sustainable Development (**WCPSD**)
   Durban, South Africa.
   Poster Presentation: **Role of Physics Institutions in International Collaborations**.
7. 14-15 November 2005
   The Second Engineering Students Gathering
   College of Engineering
   Sultan Qaboos University
   Muscat, Sultanate of Oman.
   (Participated as a *Referee* for the Project Presentations).
8. 23-24 January 2006
   PEIE's Smart Manufacturing Conference,
   Muscat, Sultanate of Oman.
   (**PEIE:** Public Establishment for Industrial Estates, http://www.peie.om/).
9. 23-25 November 2006
   Dipartimento di Fisica Galileo Galilei
   Università di Padova
   Istituto Nazionale di Fisica Nucleare (**INFN**),
   Sezione di Padova, Padua/Padova
   ITALY.
   Collaboration: **The Halo Problem in Accelerator Beams**.
10. 27 November - 01 December 2006
    Workshop on Economic Development for Physicists from Developing Countries (**EDPDC**),
    Held at: The Abdus Salam International Centre for Theoretical Physics (**ICTP**), Trieste
    ITALY.
11. 15-18 August 2007
    The Institute of Mathematical Sciences (**IMSc/Matscience**),
    Chennai (Madras), INDIA.

12. 02-04 January 2013
    The Institute of Mathematical Sciences Golden Jubilee Conference,
    The Institute of Mathematical Sciences (**IMSc/Matscience**),
    Chennai (Madras), India.
13. 17-18 April 2013
    International Conference on Business Management 2013
    Omani Economy & Globalization:
    Emerging Modernization & Benchmarking (**ICBM-2013**)
    College of Commerce and Business Administration (**CCBA**)
    Dhofar University
    Salalah, Dhofar
    Sultanate of Oman.
14. 25-30 August 2013
    13th Asian Quantum Information Science Conference (**AQIS13**),
    The Institute of Mathematical Sciences (**IMSc/Matscience**),
    Chennai (Madras), India.
15. 28 September 2014
    The Research Council Awareness Programme
    TRC: The Research Council (of Oman)
    Dhofar University
    Salalah, Dhofar
    Sultanate of Oman.
16. 13-15 December 2014
    Second Arab-American Frontiers of Sciences, Engineering, and Medicine Symposium
    Muscat
    Sultanate of Oman.
    Poster Presentation: **Gearing up for the International Year of Light**.
17. 14-15 September 2015
    The Islamic Golden Age of Science for todays Knowledge-based Society: The Ibn Al-Haytham Example
    Room II
    UNESCO Headquarters
    Paris
    FRANCE.
    Oral Presentation: **Medieval Arab Achievements in Optics**.
18. 11-14 July 2016
    AP Summer Institute
    Calculus AB: For New Teachers
    Continuing and Professional Studies
    University of Houston
    Houston, Texas,
    USA.
    (**AP**: Advanced Placement, Equivalent of 30 Contact Hours and 3 Continuing Education Units).

Conferences & Visits of Interest

1. 15-19 May 2017
   8th International Particle Accelerator Conference (**IPAC-2017**)
   Copenhagen
   Denmark.
2. July-August 2017
   The Institute of Mathematical Sciences (**IMSc/Matscience**),
   Chennai (Madras), India.
3. July-August 2017
   Chennai Mathematical Institute (**CMI**),
   Chennai (Madras), India.

4. 20-25 May 2018
   International Particle Accelerator Conference (**IPAC-2018**)
   Vancouver,
   Canada.
5. 25-29 May 2019
   International Particle Accelerator Conference (**IPAC-2019**)
   Melbourne Convention & Exhibition Centre
   Melbourne
   Australia.