

PUBLICATIONS

Textbooks in Arabic

- 1- Complex Analysis, King Saud University Press, Riyadh, 1988.
- 2- Real Analysis (with co-authors), vol 1, 2nd edition, KSU, Riyadh, 2010.
- 3- Real Analysis, vol 2, 2nd edition, 2008.
- 4- Real Analysis, vol 3, 2008.
- 5- Mathematical Methods, Riyadh, 1999.
- 6- Introduction to Partial Differential Equations, 2012.

Textbooks in English

- 1- Theory of Distributions, Marcel Dekker (vol 159), New York, 1992.
- 2- Elements of Real Analysis (with S.A. Al-Sanousi), Chapman and Hall/CRC, Boca Raton, Florida, 2006.
- 3- Sturm-Liouville Theory and its Applications, Springer-Verlag, London, 2008.

Selected Papers

- 1- M.A. Al-Gwaiz, *The mixed boundary value problem for Helmholtz' equation in a sector: some existence results*, J. Riyadh Univ.-Eng. Sciences (1975), Vol 1 No 1, 43-55.
- 2- M.A. Al-Gwaiz, *On the vibrations of elastic plates*, J. Riyadh Univ.- Eng. Sciences (1980), Vol 6 No 1, 55-61.
- 3- M. Sebawe Abdulla and M.A. Al-Gwaiz, *The damped pulsating oscillator with a stochastic driving force*, Il Novo Cimento, 105B (1990) No 4, 401-417.
- 4- Sharief Deshmoukh and M.A. Al-Gwaiz, *Compact manifolds of constant scalar curvature*, Geometria Dedicata 40 (1991) No 1. 23-27.
- 5- Sharief Deshmoukh and M.A. Al-Gwaiz, *A sufficient condition for a compact hypersurface in a sphere to be a sphere*, Yokohama Math. J. 40 (1993), 105-109.
- 6- Sharief Deshmoukh and M.A. Al-Gwaiz, *Compact hypersurfaces in even-dimensional Euclidean space and in the sphere*, Quart. J. of Math. 45 (1994), No 2, 151-157.
- 7- M.A. Al-Gwaiz, M. Sebawe Abdulla and Sharief Deshmoukh, *Lie algebraic approach to the coupled-mode oscillator*, J.of Physics A 27 (1994) No 4, 1275-1282.
- 8- M.A. Al-Gwaiz and V. Anandam, *A global version of Bocher's theorem*, Arab Gulf J. of Sc. Res. 11 (1993), No 3, 305-313.
- 9- M.A. Al-Gwaiz and V. Anandam, *Representation of harmonic functions with asymptotic boundary conditions*, Arab Gulf J. of Sc. Res. 13 (1995), No 1, 1-11.
- 10- M.A. Al-Gwaiz, *On the fundamental solution of the reduced wave equation*, J. King Saud Univ. 7 (1995), Eng. Sciences-2, 343-350.
- 11- V. Anandam and M.A. Al-Gwaiz, *Global representation of biharmonic functions*, Potential Analysis 6 (1997), 207-214.

- 12- N. Shalaby and M.A. Al-Gwaiz, *Generalized hooked, extended, and near-Skolem sequences*, J. Comb. Math. And Comb. Comp. 26 (1998), 113-128.
- 13- M. Kirane, S. Malik and M.A. Al-Gwaiz, *An inverse source problem for a two dimensional time fractional diffusion equation with nonlocal boundary conditions*, Math. Meth. App. Sc. (2012).
- 14- M.A. Al-Gwaiz and V. Anandam, *On the representation of biharmonic functions with singularities in \mathbb{R}^n* , Indian J. Pure Appl. Math. 44(3) (2013), 263-267.
- 15- M.A. Al-Gwaiz, V. Benci and F. Gazzola, *Bending and stretching energies in a rectangular plate modeling suspension bridges*, Nonlinear Analysis 106 (2014) 18–34.