



## Robert W. WOODRUFF LIBRARY

Atlanta University Center

Clark Atlanta University • Interdenominational Theological Center • Morehouse College • Spelman College

# Mathematics

Rosaline Y. Odom, Ph.D.

Liaison for Mathematics

(404) 978-2129

[rodom@auctr.edu](mailto:rodom@auctr.edu)

## Scope

The purpose of this guide is to introduce some of the **Mathematics** resources available in at the Robert W. Woodruff Library. It is NOT a comprehensive listing of sources, but is intended to be a starting point from which you can begin your research according to your specific needs.

## Table of Contents

- |                          |   |
|--------------------------|---|
| 1. Biographies           | 5. Special Online Resources for Mathematics |
| 2. Dictionaries          | 6. Electronic Databases                     |
| 3. Encyclopedias         | 7. Print and Electronic Journals            |
| 4. Handbooks and Methods | 8. Scientific Societies                     |

## 1. Biographies

*Notable Women in Mathematics: A Biographical Dictionary* edited by Charlene Morrow and Teri Perl  
Location: REFERENCE QA28 .N68 1998

*Black Mathematicians and Their Works* edited by Virginia K. Newell  
Location: Main Collection, Upper Level QA28. B58 1980

## 2. Dictionaries

*The Hutchinson pocket dictionary of Math*  
Location: Electronic Book, accessible through library catalog by performing title search

*Dictionary of Applied Math for Engineers and Scientists* edited by Emma Previato  
Location: REFERENCE QA5 .D49835 2003

*Dictionary of Classical and Theoretical Mathematics* edited by Catherine Cavagnaro and William T. Haight  
Location: REFERENCE QA5 .D4984 2001

## 3. Encyclopedias

*AccessScience (McGraw Hill) Encyclopedia of Science & Technology*  
Location: online [www.auctr.edu](http://www.auctr.edu), go to E-Resources, select Databases

## 5. Handbooks and Methods

*Advanced Mathematical Methods in Science and Engineering* by S.I. Hayek  
Location: REFERENCE QA37.2 .H39 2001

*Concise Handbook of Mathematics and Physics* by Alexander G. Alenitsyn, Eugene I. Butikov and Alexander S. Kondratyev  
Location: MAIN COLLECTION QC61 .A4813 1997

*Integral Methods in Science and Engineering* edited by P. Schiavone, C. Constanda and A. Mioduchowski  
Location: MAIN COLLECTION QA431 .I49 2002

*Mathematical Methods for Students of Physics and Related Fields* by Sadri Hassani  
Location: MAIN COLLECTION QC20 .H392 2000

*Standard Mathematical Tables and Formulae* edited by Daniel Zwillinger  
Location: REFERENCE QA47 .M315 2003

## 6. Special Electronic Resources for Mathematics

**Eric Weissteins's World of Mathematics (MathWorld)** <http://mathworld.wolfram.com>  
Free web encyclopedia and current news in the field of mathematics.

**World Wide Virtual Library for Mathematics** [www.math.fsu.edu/Virtual/](http://www.math.fsu.edu/Virtual/)  
Maintained at Florida State University a good starting place for web resources in mathematics.

## 7. Electronic Resources

**MathSciNet** – comprehensive database covering the world's mathematical literature since 1940

**Academic Search Complete** – provides articles on mathematics and other disciplines, full-text available.

**ACM Digital Library** [www.acm.org/dl](http://www.acm.org/dl) - provides online access to all ACM journals, magazines and conference proceedings.

## 8. Print and Electronic<sup>†</sup> Journals

American Journal of Mathematics <sup>†</sup>	Journal of the American Mathematical Society <sup>†</sup>
American Mathematical Monthly <sup>†</sup>	Journal of the American Statistical Association <sup>†</sup>
American Statistician <sup>†</sup>	Mathematics Magazine <sup>†</sup>
Annals of Mathematics <sup>†</sup>	Mathematics of Computation <sup>†</sup>
Annals of Probability <sup>†</sup>	Mathematics Teacher
Applied Mathematics & Optimization <sup>†</sup>	Mathematics Teaching in the Middle School
Archives of Inequalities & Applications <sup>†</sup>	Neural Parallel Scientific Computations
Bulletin of the American Mathematical Society <sup>†</sup>	Nonlinear Studies <sup>†</sup>
Communications of the ACM <sup>†</sup>	Nonlinearity <sup>†</sup>
Communication in Applied Analysis <sup>†</sup>	Proceedings, National Academy of Science USA
Duke Mathematical Journal <sup>†</sup>	Quarterly Journal of Mathematics <sup>†</sup>
Dynamic Systems & Applications <sup>†</sup>	School Science & Mathematics <sup>†</sup>
Experimental Mathematics <sup>†</sup>	SIAM Journal on Applied Mathematics <sup>†</sup>

International Journal of Hybrid Systems †  
 Journal for Research in Mathematics Education †  
 Journal of Difference Equations & Applications †  
 Journal of Mathematical Physics †  
 Journal of the ACM †

SIAM Journal on Discrete Mathematics †  
 SIAM Journal on Numerical Analysis †  
 SIAM Journal on Scientific Computing †  
 Structural Equation Modeling †  
 Transactions of American Mathematical Society †

## 9. Scientific Societies

American Association for the Advancement of Science [www.aaas.org](http://www.aaas.org)  
 American Institute of Mathematics [www.aimath.org](http://www.aimath.org)  
 American Mathematical Society [www.ams.org](http://www.ams.org)  
 Association for Computing Machinery [www.acm.org](http://www.acm.org)  
 Association for Women in Mathematics [www.awm-math.org](http://www.awm-math.org)  
 Institute of Electrical and Electronic Engineers [www.ieee.org](http://www.ieee.org)  
 International Association for Mathematical Physics [www.iamp.org](http://www.iamp.org)  
 International Mathematical Union [www.mathunion.org](http://www.mathunion.org)  
 Mathematical Association of America [www.maa.org](http://www.maa.org)  
 Mathematical Sciences Research Institute [www.msri.org](http://www.msri.org)  
 National Academy of Sciences [www.nas.edu](http://www.nas.edu)  
 National Science Foundation [www.nsf.gov](http://www.nsf.gov)  
 Society for Industrial and Applied Mathematics [www.siam.org](http://www.siam.org)

### Library of Congress Classifications

The following classifications provide an organizational scheme for how **Mathematics** materials are organized and shelved in the library. Be sure to browse the shelves for nearby items on this subject guide to find related resources. All math books are on the Upper Level.

#### QA Mathematics

QA (1-43)	Mathematics - General
QA (47-59)	Tables
QA (71-90)	Instruments and Machines
QA (75-76.95)	Calculating Machines
QA (75.5-76.95)	Electronic Computers / Computer Science
QA (76.75-76.765)	Computer Software
QA (101-145)	Elementary Mathematics / Arithmetic
QA (150-272.5)	Algebra
QA (273-280)	Probabilities / Mathematical Statistics
QA (299.6-433)	Analysis
QA (440-699)	Geometry / Trigonometry / Topology
QA (801-939)	Analytic Mechanics

Updated 8/27/08