

ADVANCED MATH EXAM

I. Simplify the following complex numbers. Express results using three decimal places.

$$1) 6i^{158} - \frac{4i^{-129}}{3i^{137} - 5i^{179}} + \frac{5i^{107} + 2i^{131}}{3i^{152}} \div \frac{2i^{-125} - 4i^{-146}}{3i^{152}}$$

$$2) \sqrt[4]{\frac{\{(7-i) - (4+2i)\}^3}{3.45 \angle 72^\circ + 4.26 e^{3.68i}}}$$

$$3) \ln(2+3i)^{(-2-5i)} + \log_{(-4-2i)}(3+i)$$

$$4) \ln \{ \tan(0.24 + 0.35i) - \coth(0.34 - 0.67i) \}$$

$$5) \arctan(-3+5i)$$

II. Perform the indicated operations on matrices

$$1) 2 \begin{bmatrix} 1 & 3 & -2 \\ -4 & 1 & 1 \\ 3 & -1 & 2 \end{bmatrix} + \begin{bmatrix} -2 & 1 & 3 \\ 1 & -4 & 2 \\ 3 & 1 & -1 \end{bmatrix} - 3 \begin{bmatrix} 4 & -3 & 1 \\ 2 & 1 & 3 \\ -1 & 2 & -1 \end{bmatrix}$$

$$2) \begin{bmatrix} 1 & 3 & -2 \\ -4 & 1 & 1 \\ 3 & -1 & 2 \end{bmatrix} \cdot \begin{bmatrix} 3 & -1 \\ 1 & 2 \\ 4 & 1 \end{bmatrix}$$

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S Ben Porath



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Matrix-geometric Solutions in Stochastic Models Marcel F. Neuts,1994-01-01 Topics include matrix geometric invariant vectors buffer models queues in a random environment and more

Graphical Presentation of Difference Solutions for Transient Radial Heat Conduction in Hollow Cylinders with Heat Transfer at the Inner Radius and Finite Slabs with Heat Transfer at One Boundary James E. Hatch,1960

The Potential Distribution Theorem and Models of Molecular Solutions Tom L. Beck,Michael E. Paulaitis,Lawrence R. Pratt,2006-08-31 An understanding of statistical thermodynamic molecular theory is fundamental to the appreciation of molecular solutions This complex subject has been simplified by the authors with down to earth presentations of molecular theory Using the potential distribution theorem PDT as the basis the text provides a discussion of practical theories in conjunction with simulation results The authors discuss the field in a concise and simple manner illustrating the text with useful models of solution thermodynamics and numerous exercises Modern quasi chemical theories that permit statistical thermodynamic properties to be studied on the basis of electronic structure calculations are given extended development as is the testing of those theoretical results with ab initio molecular dynamics simulations The book is intended for students taking up research problems of molecular science in chemistry chemical engineering biochemistry pharmaceutical chemistry nanotechnology and biotechnology

Transactions,1956

Bulletin Rome (Italy) Provisional International Computation Centre,

General Catalogue Massachusetts Institute of Technology,1959

Annual Catalogue Massachusetts Institute of Technology,1962

Proceedings American Society for Engineering Education,1961

Stochastic Models in Operations Research Daniel P. Heyman,Matthew J. Sobel,2004-01-01 This volume of a 2 volume set explores the central facts and ideas of stochastic processes illustrating their use in models based on applied and theoretical investigations Explores stochastic processes operating characteristics of stochastic systems and stochastic optimization Comprehensive in its scope this graduate level text emphasizes the practical importance intellectual stimulation and mathematical elegance of stochastic models

Proceedings of the American Society for Engineering Education American Society for Engineering Education,1961

Bulletin Du Centre International Provisoire de Calcul Provisional International Computation Centre,1958

Transactions of the Symposium on Partial Differential Equations Held at the University of California, at Berkeley, June 20-July 1, 1955, Sponsored by Office of Naval Research [and Others] United States. Office of Naval Research,1956

Calendar University of Saskatchewan,1954

General Catalogue Issue Massachusetts Institute of Technology,1960

75 Years of Mathematics of Computation Susanne C. Brenner,Igor E. Shparlinski,Chi-Wang Shu,Daniel Szyld,2020-07-29 The year 2018 marked the 75th anniversary of the founding of Mathematics of Computation one of the four primary research journals published by the American Mathematical Society and the oldest research journal devoted to computational mathematics To celebrate this milestone the symposium Celebrating 75 Years of Mathematics of Computation was held from November 1 3

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The Journal of Engineering Education ,1961 *American Journal of Physics* ,1940 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and cultural aspects of physics

Instrument Engineering: Methods for associating mathematical solutions with common forms Charles Stark Draper,Walter McKay,Sidney Lees,1953 *Engineering Education* American Society for Engineering Education,1962 *Satisfaction of Asymptotic Boundary Conditions in Numerical Solution of Systems of Non-linear Equations of Boundary-layer Type* Philip R. Nachtsheim,Paul Swigert,1965

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