

Council for Technical Education and Vocational Training
Office of the Controller of Examinations
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Program: Regular/Back Exam-2073, Bhadra/Ashwin
 Diploma in Civil/Architecture/Mechanical/
 Automobile/ Information Technology/ Computer
 / Electrical/ Electrical & Electronics/Electronics/
 Geomatics/Engineering
Year/Part: I/II (New Course)
Subject: Math II

Full Mark: 80

Pass Mark:32
Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt All questions
Group "A" [3x(5+5)=30]

1. ✓ a) Define Transpose of a matrix. If $A = \begin{pmatrix} 1 & 2 \\ 3 & 0 \end{pmatrix}$, $B = \begin{pmatrix} 2 & 1 \\ 1 & 2 \end{pmatrix}$, [1+4=5]
 verify that $(AB)^T = B^T A^T$.

[5]

b) Prove that

$$\begin{bmatrix} a+b+2c & c & c \\ a & b+c+2a & a \\ b & b & c+a+2b \end{bmatrix} = 2(a+b+c)^3$$

2. a) Show that the line joining the points (1,2,2) and (4,5,6) is [5]
 perpendicular to the line joining (5,-3,4) and (7,-1,1).

- b) Find the equation of the plane containing the lines [5]
 through the origin with direction cosines proportional to
 2,1,-2 and 5,2,-3.

3. ✓ a) Define absolute value of a complex number. [1+4=5]

If $\frac{1-ix}{1+ix} = a - ib$. Prove that $a^2 + b^2 = 1$

- b) Apply De-moiver's theorem to compute the cube roots of [5]
 unity.

Group "B" [10X5=50]

4. ✓ Solve by using Cramer's Rule or ROW Equivalent Matrix [5]
 method:

$$x+y-z=3$$

$$-2y+z=10$$

$$5x-y-2z=-3$$

5. ✓ In any ΔABC , Prove by vector method that [5]

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

Engineering Math 2nd Semester Question Paper

CH Cherryholmes



Engineering Math 2nd Semester Question Paper:

A Textbook of Engineering Mathematics (M.D.U, K.U., G.J.U, Haryana) Sem-II N. P. Bali,2011-12 Engineering Mathematics: Volume II C. S. Muja war,2013-12-30 A comprehensive text for the students of engineering and technology The topics included are differential equations of first order and higher degree linear differential equations equations reducible to linear differential equations partial differential equations multiple integrals vector integration and laplace transforms **Engineering Mathematics-II: For WBUT** Babu Ram,2012 *Learning Strategies in Engineering Mathematics* Birgit Gries e,2017-02-28 Birgit Gries e presents MP2 Math Plus a support project for first year students in engineering at Ruhr Universit t Bochum that aims at preventing unnecessary drop out Conceptualisation and development of the project follow a design research approach according to Gravemeijer Cobb and van den Akker The interventions focus on learning strategies which are collected in a pre post design with the aid of the LIST questionnaire by Wild and Schiefele These and other data are utilised for the evaluation of MP2 Math Plus The results confirm the adaptations of the project procedures in successive cycles stress the importance of effort and motivation and assess the success of the project

Engineering Mathematics Anthony James Merrill Spencer,1977 Mathematical Modelling Courses for Engineering Education Yasar Ersoy,Alfredo O. Moscardini,2013-06-29 As the role of the modern engineer is markedly different from that of even a decade ago the theme of engineering mathematics education EME is an important one The need for mathematical model ling MM courses and consideration of the educational impact of computer based technology environments merit special attention This book contains the proceeding of the NATO Advanced Research Workshop held on this theme in July 1993 We have left the industrial age behind and have entered the in formation age Computers and other emerging technologies are penetrating society in depth and gaining a strong influence in de termining how in future society will be organised while the rapid change of information requires a more qualified work force This work force is vital to high technology and economic competitive ness in many industrialised countries throughout the world Within this framework the quality of EME has become an issue It is expected that the content of mathematics courses taught in schools of engineering today have to be re evaluated continuously with regard to computer based technology and the needs of mod ern information society The main aim of the workshop was to pro vide a forum for discussion between mathematicians engineering scientists mathematics educationalists and courseware develop ers in the higher education sector and to focus on the issues and problems of the design of more relevant and appropriate MM courses for engineering education *Artificial Intelligence in Education. Posters and Late Breaking Results, Workshops and Tutorials, Industry and Innovation Tracks, Practitioners, Doctoral Consortium, Blue Sky, and WideAIED* Alexandra I. Cristea,Erin Walker,Yu Lu,Olga C. Santos,Seiji Isotani,2025-07-23 This three volume set CCIS 2590 2592 constitutes poster papers and late breaking results workshops and tutorials practitioners industry and policy track doctoral consortium blue sky and wideAIED papers presented at the 26th

International Conference on Artificial Intelligence in Education AIED 2025 held in Palermo Italy during July 22-26 2025 The 72 full papers and 73 short papers 72 of them presented as posters presented in this book were carefully reviewed and selected from 296 submissions They are organized in topical sections as follows Part I BlueSky Practitioners Industry and Policy WideAIED Doctoral Consortium Part II Late Breaking Results Part III Late Breaking Results Workshops and Tutorials

Electrical Engineering, 1947-07 **Abstracts of Papers Presented to the American Mathematical Society**
American Mathematical Society, 2005 **Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy** United States Air Force Academy, 1996 **Interactive Collaborative Learning**

Michael E. Auer, David Guralnick, James Uhomobhi, 2017-01-07 This book presents the proceedings of the 19th International Conference on Interactive Collaborative Learning held 21-23 September 2016 at Clayton Hotel in Belfast UK We are currently witnessing a significant transformation in the development of education The impact of globalisation on all areas of human life the exponential acceleration of developments in both technology and the global markets and the growing need for flexibility and agility are essential and challenging elements of this process that have to be addressed in general but especially in the context of engineering education To face these topical and very real challenges higher education is called upon to find innovative responses Since being founded in 1998 this conference has consistently been devoted to finding new approaches to learning with a focus on collaborative learning Today the ICL conferences have established themselves as a vital forum for the exchange of information on key trends and findings and of practical lessons learned while developing and testing elements of new technologies and pedagogies in learning **Transforming Curriculum Through**

Teacher-Learner Partnerships Nair, Pradeep, Keppell, Michael James, Lim, Chee Leong, Mari, TamilSalvi, Hassan, Nurhanim, 2020-12-11 Empowering learners for life requires a fundamental shift in higher education curriculum design New priorities pedagogies technologies spaces and assessment strategies are required to enable learners to take ownership of their learning Student centeredness concepts are still prescriptive in nature as most decisions on curriculum assessment teaching and learning approaches are still teacher centric Teachers are developing student centered learning environments without the involvement of the learners in the planning decision making and or design process In addition some lecturers are still practicing the traditional approaches of content delivery and conventional assessment methods rather than experimenting with innovative practices suited for student centered approaches Therefore there is an ongoing need for research focused on the importance and effectiveness of a paradigm shift in education that involves student teacher partnerships fueled by innovative teaching and learning designs where students take an active role and contribute as partners in learning Transforming Curriculum Through Teacher Learner Partnerships captures experiences and evidence among teachers in exploring the possibility of active student participation in curriculum design delivery and assessment through teacher learner partnership The chapters address issues of teacher learner partnerships in designing the learning

environment and how student centered methods create resilient adaptable and future capable learners While highlighting topics within this scope such as learner autonomy learning performance self efficacy and teaching pedagogy this book is ideally intended for teachers administrators teacher educators practitioners stakeholders researchers academicians and students interested in issues related to the teacher learner partnership

Resources in Education ,2001-10 *The Legacy of Felix Klein* Hans-Georg Weigand,William McCallum,Marta Menghini,Michael Neubrand,Gert Schubring,2018-12-11 This open access book provides an overview of Felix Klein s ideas highlighting developments in university teaching and school mathematics related to Klein s thoughts stemming from the last century It discusses the meaning importance and the legacy of Klein s ideas today and in the future within an international global context Presenting extended versions of the talks at the Thematic Afternoon at ICME 13 the book shows that many of Klein s ideas can be reinterpreted in the context of the current situation and offers tips and advice for dealing with current problems in teacher education and teaching mathematics in secondary schools It proves that old ideas are timeless but that it takes competent committed and assertive individuals to bring these ideas to life Throughout his professional life Felix Klein emphasised the importance of reflecting upon mathematics teaching and learning from both a mathematical and a psychological or educational point of view He also strongly promoted the modernisation of mathematics in the classroom and developed ideas on university lectures for student teachers which he later consolidated at the beginning of the last century in the three books on elementary mathematics from a higher standpoint

American Journal of Physics ,2002

Research in Education ,1971-12

Directory of Research Grants 2008 Schoolhouse Partners LLC,2008-05 Volume 2 of 2 With more than 5 100 listings of grants programs from 1 880 sponsors the Directory of Research Grants is a comprehensive directory of grants available to researchers in every field of study The directory has a broad focus featuring grants for basic research equipment acquisition building construction renovation fellowships and 23 other program types Government grants include CFDA NSF and NIH program numbers Each record includes grant title description requirements amount application deadline contact information phone fax and email web address sponsor name and address and samples of awarded grants when available Printed in two volumes each with extensive indexes subject program type and geographic to help you to identify the right program quickly

Information Systems and Technologies Alvaro Rocha,Hojjat Adeli,Gintautas Dzemyda,Fernando Moreira,2022-05-16 This book covers the following main topics A information and knowledge management B organizational models and information systems C software and systems modeling D software systems architectures applications and tools E multimedia systems and applications F computer networks mobility and pervasive systems G intelligent and decision support systems H big data analytics and applications I human computer interaction J ethics computers and security K health informatics L information technologies in education M information technologies in radio communications N technologies for biomedical applications This book is composed by a selection of articles from The 2022 World Conference on Information Systems and Technologies

WorldCIST 22 held between April 12 and 14 in Budva Montenegro WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences and challenges of modern information systems and technologies research together with their technological development and applications

Undergraduate Announcement University of Michigan--Dearborn,1995 **Computer Assisted Assessment. Research into E-Assessment** Eric Ras,Desirée Joosten-ten Brinke,2015-12-23 This book constitutes the refereed proceedings of the 18th International Conference on Computer Assisted Assessment CAA 2015 held in Zeist The Netherlands in June 2015 The 15 revised full papers presented were carefully reviewed and selected from numerous submissions The papers present current developments in technology enhanced assessment Topics covered include automatic item generation computer adapted testing the use of multimedia in assessment e assessment policies

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