

INTERNATIONAL ISLAMIC UNIVERSITY ISLAMABAD DEPARTMENT OF ELECTRICAL ENGINEERING

TERMINAL EXAMINATION

COURSE NAME	Advance Engineering Mathematics	BATCH	F20
COURSE CODE	EE-501	MAX. MARKS	50
INSTRUCTOR	Prof. Dr. Abdul Jalil	TIME ALLOWED	3 Hrs (+ 3 Hrs)

Note:

Use "Advance Engineering Mathematics_Answer_Booklet.Doc" document, read and follow the instructions given inside. Convert your file to a single PDF file and upload within the given time limit.

You are required to submit the original answer sheet to the department as soon as university resumes for students, therefore keep the original answer sheet with you.

Fall 2020 (January 25, 2021)

CLO-03

100

- i. Compute the Lⁿ and L² norm on [0,1] of the functions $f_1(x) = \frac{1}{3} x$ and $f_2(x) = x x^2$.
- ii. Verify the triangle inequality for above two functions of part (i) using each norm.

b.

Let $v = {a \choose b}$ and $w = {1 \choose 1}$. Use the Cauchy-Schwarz inequality to show that

$$\left(\frac{a+b}{2}\right)^2 \leq \frac{a^2+b^2}{2}$$

- c. Write the quadratic form q(X) = x₁² + x₁x₂ + 2x₂² x₁x₃ + 3x₃² in the form q(X) = X^TKX for some symmetric matrix K. Is q(X) positive definite?
- d. Explain why $A = \begin{pmatrix} 1 & 2 & 3 \\ 2 & 8 & 12 \\ 3 & 12 & 27 \end{pmatrix}$ is positive definite. If yes find its Cholesky Factorization.

Advance Engineering Mathematics Paper Solution

Erwin Kreyszig, Edward J. Norminton

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