

UNIT-IV (Contd.):

QUADRATIC RESIDUES AND THE QUADRATIC RECIPROCITY LAW:-

Quadratic residues - Legendre's symbol and its properties - Evaluation of $(-1/p)$ and $(2/p)$ - Gauss' lemma - The quadratic reciprocity law - Applications of the reciprocity law.

Chapter 9 - Articles 9.1 to 9.6.

TEXT BOOK: Introduction to Analytic Number Theory -
By TOM. M. APOSTOL

SPRINGER - VERLAG - NEW YORK, HEIDALBERG -
BERLIN - 1976.
