Algebraic Number Theory References

1. Introductory Algebraic Number Theory, Alaca, Williams (QA 247 A43)
Chapter 11, section 6 discusses the calculation of the fundamental unit of a real quadratic field.

2. Algebraic Number Theory, Lang (QA 247 L29)
A complete text about algebraic number theory. Chapter 8 discuss the Dedekind zeta function of a number field.

3. An Introduction to the Theory of Numbers, Hardy and Wright (QA 241 H28)
A classic book on number theory. Chapter XVII deals with Dirichlet series in general and many special examples.

4. Introduction to Arithmetic Functions, McCarthy (QA 245 M36)
Chapter 5 deals with general Dirichlet series.

5. The Development of Prime Number Theory, Narkiewicz (QA 246 N37)
Chapters 1 and 2 discuss Dirichlet series, Dirichlet L-functions, and the proof of Dirichlet’s theorem

6. An introduction to the theory of numbers, Niven, Zuckerman (QA 241 N56)
Chapter 7 discusses continued fractions and Pell’s equation. Theorems 7.25 and 7.26 provide the basic method for finding the fundamental unit, as explained in reference 1.

7. The Theory of Groups, Hall (QA 171 H27)
Chapter 13, section 2 discusses duality theory for abelian groups, although not very elegantly.