SUMMARY

The first chapter gives a brief discussion of principles of corrosion. The corrosion characteristics of copper-zinc alloys are surveyed in the second chapter. In the third chapter, the reported inhibitors for the corrosion of brasses in diverse aggressive media are reviewed. The literature on dezincification of brasses is summarised in the fourth chapter.

The fifth chapter deals with inhibition of the corrosion of 60/40 brass in 0.2N, 0.5N and 1.0N sodium hydroxide solutions by 17 organic substances. Glucose is the most satisfactory inhibitor which completely arrests the corrosion of 60/40 brass in 0.2N and 0.5N NaOH solutions.

Observations on inhibition of the corrosion of 60/40 brass in potassium persulphate solutions by six inhibitors are given in chapter sixth. K₄Fe(CN)₆ completely arrests the corrosion of 60/40 brass. The performance of phenyl hydrazine and KCNS is also satisfactory.

In the seventh chapter, observations on the inhibition of the corrosion of 60/40 brass in nitric acid by seven inhibitors are recorded. All the substances investigated are highly efficient inhibitors which afford nearly complete protection to 60/40 brass in 2.0N, 3.0N and 4.0N nitric acid.