

## Chapter 1. Application and Scope

### Application

The information contained in this book applies to the general duties and responsibilities of inspectors of weldments and is useful to them in carrying out the precise duties and responsibilities defined in particular codes or specifications. In addition, this book provides information relative to methods of inspection applicable to weldments. The inspector must be knowledgeable concerning each inspection method required on a particular weldment.

Since the inspector must have knowledge of the inspection method to be used, it is the responsibility of those charged with the administration and supervision of inspection to make certain that the principles and methods set forth are properly understood and uniformly applied. This responsibility also includes the qualification and certification of inspectors where such certification is required by codes, specifications, or civil law. In this regard, it is beneficial to consider certification under the American Welding Society's welding inspector certification program.

For the best use of the inspection and test methods described in this book, adequate draw-

ings and specifications should be supplied as part of the contract. These specifications also should include requirements for welding procedure specifications and qualification of (1) this procedure, (2) the welders, and (3) the welding operators. In the absence of such requirements for procedure specifications, the manufacturer should be requested to establish, in writing, details of the methods to be used, including methods of inspection.

### Scope

The scope of this book includes the testing methods applicable to the majority of weldments used in construction. The extent of required inspections should be clearly defined in the contract specifications or on drawings that refer to a particular weldment (unless otherwise defined in applicable codes or specifications). Furthermore, acceptance standards must be clearly understood by both the manufacturer and the user before any welding is started. This is not only to make more effective use of the inspection methods described in this book, but to prevent disagreement over whether a weldment is satisfactory in accordance with the contract specifications.