**New Perspectives XML Comprehensive, 3e**

**Tutorial 2: Validating Documents with DTDs**

**Key Terms**

**#IMPLIED** The attribute default value that indicates that an attribute is optional. (XML 85)

**#PCDATA** A content model that that restricts an object to contain only parsed character data. (XML 67)

**#REQUIRED** The attribute default value that indicates that an attribute is required. (XML 85)

**Any** The most general type of content model, which allows an element to store any type of content. (XML 76)

**Attribute declaration** *See* attribute-list declaration. (XML 84)

**Attribute-list declaration** A declaration that lists the names of all the attributes associated with a specific element; also specifies the data type of each attribute by indicating whether each attribute type is required or optional and by providing a default value for each attribute that requires one. *Also called* attribute distribution. (XML 84)

**CDATA** data type The data type that indicates that an attribute value contains character data. (XML 85)

**Conditional section** A section of a DTD that is processed only in certain situations. (XML 116)

**DOCTYPE** *See* document type declaration. (XML 71)

**Document type declaration** The statement used to attach a DTD to an XML document. *Also called* DOCTYPE. (XML 71)

**Element declaration** *See* element type declaration. (XML 66)

**Element type declaration** A declaration that specifies an element’s name and the element’s content model. *Also called* element declaration. (XML 66)

**Empty** A content model reserved for elements that store no content. (XML 76)

**Enumerated type** An attribute type that specifies a limited set of possible values. (XML 85)

**External entity** An entity that references content found in an external file. (XML 106)

**External subset** The part of a DOCTYPE that identifies the location of an external DTD file. (XML 71)

**Formal public identifier** *See* public identifier. (XML 72)

**General entities** Entities that are declared in a DTD and can be referenced anywhere within the body of an XML document. (XML 104)

**ID token** A data type used when an attribute value must be unique within a document. (XML 92)

**ID token type** An attribute type that indicates a unique text string within a document; used when an attribute value must be unique within a document. (XML 85)

**IDREF token** A data type for which each value must match the value of an ID attribute located somewhere in the same document. (XML 93)

**IDREF token type** An attribute type that references a value with an ID type within the same document; the IDREF token value must have a value equal to the value of an ID attribute located somewhere in the same document. (XML 85)

**Internal entity** An entity whose content is found within the DTD. (XML104)

**Internal subset** The part of a DOCTYPE that contains the rules and declarations of the DTD placed directly into the document. (XML 71)

**Mixed content** An element that contains both parsed character data and child elements. (XML 83)

**Modifying symbol** An element that contains both parsed character data and child elements. (XML 67)

**Modules** Separate chunks of a DTD that are joined using parameter entities. (XML 113)

**NMTOKEN** A data type used with character data whose values must meet almost all the qualifications for valid XML names. *Also called* name token. (XML 94)

**Notation** An enumerated type that associates the value of an attribute with a <!NOTATION> declaration that is inserted elsewhere in the DTD. (XML 92)

**Parameter entity** An entity used to insert content within a DTD. (XML 106)

**Parsed entity** An entity that references text that can be readily interpreted by an application reading the XML document. (XML 104)

**Public identifier** An identifier that specifies a name for the DTD file, which includes the owner or author of the DTD and the language used to write the DTD. *Also called* formal public identifier. (XML 72)

**Sequence** An ordered list of items that replaces the concept of node sets from XSLT 1.0. (XML 67)

**System identifier** An identifier that specifies the location of a DTD file. (XML 71)

**Tokenized types** Character strings that follow certain specified rules for format and content. (XML 92)

**Tokens** The rules that a tokenized type follows. (XML 92)

**Unparsed entity** An entity that references content that either is nontextual or cannot be interpreted by an XML parser. (XML 106)