



Web data management

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Electronic books

Monografía

This book explains the foundations of XML, the Web standard for data management, with a focus on data distribution

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Contenido: Cover; Web Data Management; Title; Copyright; Content; Introduction; MOTIVATION FOR THE BOOK; SCOPE AND ORGANIZATION OF THE BOOK; Part 1: Modeling Web Data; Part 2: Web Data Semantics and Integration; Part 3: Building Web Scale Applications; INTENDED AUDIENCE; COMPANION WEB SITE; ACKNOWLEDGMENTS; PART 1: Modeling Web Data; 1 Data Model; 1.1 SEMISTRUCTURED DATA; 1.2 XML; 1.2.1 XML Documents; 1.2.2 Serialized and Tree-Based Forms; 1.2.3 XML Syntax; Elements and Text; Attributes; Well-Formed XML Document; 1.2.4 Typing and Namespaces; 1.2.5 To Type or Not to Type 1.3 WEB DATA MANAGEMENT WITH XML 1.3.1 Data Exchange; 1.3.2 Data Integration; 1.4 THE XML WORLD; 1.4.1 XML Dialects; 1.4.2 XML Standards; Programming Interfaces: SAX and DOM; Query Languages: XPath, XQuery; Web Services; 1.5 FURTHER READING; 1.6 EXERCISES; 1.6.1 XML Documents; 1.6.2 XML Standards; 2 XPath and XQuery; 2.1 INTRODUCTION; 2.2 BASICS; 2.2.1 XPath and XQuery Data Model for Documents; 2.2.2 The XQuery Model (Continued) and Sequences; 2.2.3 Specifying Paths in a Tree: XPath; 2.2.4 A First Glance at XQuery Expressions; 2.2.5 XQuery vs XSLT; 2.3 XPATH; 2.3.1 Steps and Path Expressions 2.3.2 Evaluation of Path Expressions 2.3.3 Generalities on Axes and Node Tests; 2.3.4 Axes; 2.3.5 Node Tests and Abbreviations; 2.3.6 Predicates; Conversions in XPath; Conversion to a Boolean; Converting a Node Set to a String; 2.3.7 XPath 2.0; 2.4 FLWOR EXPRESSIONS IN XQUERY; 2.4.1 Defining Variables: The for and let Clauses; 2.4.2 Filtering: The Where Clause; 2.4.3 The return Clause; 2.4.4 Advanced Features of XQuery; 2.5 XPATH FOUNDATIONS; 2.5.1 A Relational View of an XML Tree; 2.5.2 Navigational XPath; 2.5.3 Evaluation;

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