

Contents

Preface to the second edition	vii
Acknowledgments.....	xi
About the authors	xiii
Chapter 1 What is the Semantic Web?.....	1
Chapter 2 Semantic modeling	13
Chapter 3 RDF—The basis of the Semantic Web.....	27
Chapter 4 Semantic Web application architecture	51
Chapter 5 Querying the Semantic Web—SPARQL.....	61
Chapter 6 RDF and inferencing.....	113
Chapter 7 RDF schema.....	125
Chapter 8 RDFS-Plus	153
Chapter 9 Using RDFS-Plus in the wild	187
Chapter 10 SKOS—managing vocabularies with RDFS-Plus	207
Chapter 11 Basic OWL.....	221
Chapter 12 Counting and sets in OWL.....	249
Chapter 13 Ontologies on the Web—putting it all together	279
Chapter 14 Good and bad modeling practices	307
Chapter 15 Expert modeling in OWL	325
Chapter 16 Conclusions	335
Appendix.....	339
Further reading	343
Index	347