1.	Record Nr.	UNINA9910300467003321
	Autore	Kyte Thomas
	Titolo	Oracle Database Transactions and Locking Revealed / / by Thomas Kyte, Darl Kuhn
	Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2014
	ISBN	9781484207604 1484207602
	Edizione	[1st ed. 2014.]
	Descrizione fisica	1 online resource (179 p.)
	Collana	Expert's Voice in Oracle
	Disciplina	004 005.11 005.74
	Soggetti	Database management Computer programming Database Management Programming Techniques
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	"Independent Oracle Users Group"--Cover. "Building Successful Concurrency"--Cover. Includes index.
	Nota di contenuto	Contents at a Glance; Introduction; Chapter 1: Getting Started; Background; Locking; Concurrency Control; Multiversioning; Transactions; Redo and Undo; Summary; Chapter 2: Locking and Issues; What Are Locks?; Lost Updates; Pessimistic Locking; Optimistic Locking; Optimistic Locking Using a Version Column; Optimistic Locking Using a Checksum; Optimistic or Pessimistic Locking?; Blocking; Blocked Inserts; Blocked Merges, Updates, and Deletes; Deadlocks; Lock Escalation; Summary; Chapter 3: Lock Types; DML Locks; TX (Transaction) Locks; TM (DML Enqueue) Locks; DDL Locks; Latches Latch " Spinning "Measuring the Cost of Latching a Shared Resource; Setting Up for the Test; Without Bind Variables; With Bind Variables; Performance/Scalability Comparison; Mutexes; Manual Locking and User-Defined Locks; Manual Locking; Creating Your Own Locks; Summary; Chapter 4: Concurrency and Multiversioning; What Are Concurrency Controls?; Transaction Isolation Levels; READ

Sommario/riassunto	Oracle Database Transactions and Locking Revealed provides much-needed information for building scalable, high-concurrency applications and deploy them against the Oracle Database. Read this short, 150-page book that is adapted from Expert Oracle Database Architecture to gain a solid and accurate understanding of how locking and concurrency are dealt with by Oracle Database. Also learn how the Oracle Database architecture accommodates user transactions, and how you can write code to mesh with how Oracle Database is designed to operate. Good transaction design is an important facet of highly-concurrent applications that are run by hundreds, even thousands of users who are all executing transactions at the same time. Transaction design in turn relies upon a good understanding of how the underlying database platform manages of the locking of resources so as to prevent access conflicts and data loss that might otherwise result from concurrent access to data in the database. Oracle Database Transactions and Locking Revealed covers in detail the various lock types, and also different locking schemes such as pessimistic and optimistic locking. Then you'll learn about transaction isolation and multiversion concurrency, and how the various lock types support Oracle Database's transactional features. You'll learn some good tips for transaction design, as well as some bad practices and habits to avoid. Coverage is also given to redo and undo, and their role in concurrency. This is an important book that anyone developing highly-concurrent applications will want to have handy on their shelf.