1. Record Nr. UNINA9910463849803321

Autore	Dang Bruce
Titolo	Practical reverse engineering : x86, x64, ARM, Windows Kernel, reversing tools, and obfuscation / / Bruce Dang, Alexandre Gazet, Elias Bachaalany ; with contributions from Sebastien Josse
Pubbl/distr/stampa	Indianapolis, IN : , : John Wiley and Sons, , [2014] ©2014
ISBN	1-118-78739-0 1-118-78725-0
Edizione	[1st edition]
Descrizione fisica	1 online resource (383 p.)
Altri autori (Persone)	GazetAlexandre BachaalanyElias JosseSebastien
Disciplina	005.8
Soggetti	Reverse engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Chapter 1 x86 and x64; Register Set and Data Types; Instruction Set; Syntax; Data Movement; Exercise; Arithmetic Operations; Stack Operations and Function Invocation; Exercises; Control Flow; System Mechanism; Address Translation; Interrupts and Exceptions; Walk-Through; Exercises; x64; Register Set and Data Types; Data Movement; Canonical Address; Function Invocation; Exercises; Chapter 2 ARM; Basic Features; Data Types and Registers; System-Level Controls and Settings; Introduction to the Instruction Set; Loading and Storing Data; LDR and STR Other Usage for LDRLDM and STM; PUSH and POP; Functions and Function Invocation; Arithmetic Operations; Branching and Conditional Execution; Thumb State; Switch-Case; Miscellaneous; Just-in-Time and Self-Modifying Code; Synchronization Primitives; System Services and Mechanisms; Instructions; Walk-Through; Next Steps; Exercises; Chapter 3 The Windows Kernel; Windows Fundamentals; Memory Layout; Processor Initialization; System Calls; Interrupt Request Level; Pool Memory; Memory Descriptor Lists; Processes and Threads;

Execution Context; Kernel Synchronization Primitives; Lists
Implementation Details Walk-Through; Exercises; Asynchronous and Ad-Hoc Execution; System Threads; Work Items; Asynchronous Procedure Calls; Deferred Procedure Calls; Timers; Process and Thread Callbacks; Completion Routines; I/O Request Packets; Structure of a Driver; Entry Points; Driver and Device Objects; IRP Handling; A Common Mechanism for User-Kernel Communication; Miscellaneous System Mechanisms; Walk-Throughs; An x86 Rootkit; An x64 Rootkit; Next Steps; Exercises; Building Confidence and Solidifying Your Knowledge; Investigating and Extending Your Knowledge
Analysis of Real-Life Drivers Chapter 4 Debugging and Automation; The Debugging Tools and Basic Commands; Setting the Symbol Path; Debugger Windows; Evaluating Expressions; Process Control and Debut Events; Registers, Memory, and Symbols; Breakpoints; Inspecting Processes and Modules; Miscellaneous Commands; Scripting with the Debugging Tools; Pseudo-Registers; Aliases; Language; Script Files; Using Scripts Like Functions; Example Debug Scripts; Using the SDK; Concepts; Writing Debugging Tools Extensions; Useful Extensions, Tools, and Resources; Chapter 5 Obfuscation
A Survey of Obfuscation Techniques The Nature of Obfuscation: A Motivating Example; Data-Based Obfuscations; Control-Based Obfuscation; Simultaneous Control-Flow and Data-Flow Obfuscation; Achieving Security by Obscurity; A Survey of Deobfuscation Techniques; The Nature of Deobfuscation: Transformation Inversion; Deobfuscation Tools; Practical Deobfuscation; Case Study; First Impressions; Analyzing Handlers Semantics; Symbolic Execution; Solving the Challenge; Final Thoughts; Exercises; Appendix Sample Names and Corresponding SHA1 Hashes; Index

Sommario/riassunto

Analyzing how hacks are done, so as to stop them in the future
Reverse engineering is the process of analyzing hardware or software and understanding it, without having access to the source code or design documents. Hackers are able to reverse engineer systems and exploit what they find with scary results. Now the good guys can use the same tools to thwart these threats. Practical Reverse Engineering goes under the hood of reverse engineering for security analysts, security engineers, and system programmers, so they can learn how to use these same processes to stop hacke

2. Record Nr. UNISALENTO991002810809707536

Autore	Papapetrou, Achilleus
Titolo	Spezielle Relativitätstheorie / von Achilles Papapetrou
Pubbl/distr/stampa	Berlin : Deutscher Verlag der Wissenschaften, 1955
Descrizione fisica	170 p. ; 24 cm
Collana	Hochschulbücher für Physik ; 24
Classificazione	LC QC6.P294 AMS 83C
Disciplina	530.11
Soggetti	Relativity (Physics)
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia

3. Record Nr. UNINA9910506406603321

Autore	O'Leary Joseph T.
Titolo	General Relativistic and Post-Newtonian Dynamics for Near-Earth Objects and Solar System Bodies / / by Joseph O'Leary
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-80185-3
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (106 pages)
Collana	Springer Theses, Recognizing Outstanding Ph.D. Research, , 2190-5061
Disciplina	523.01
Soggetti	Astrophysics General relativity (Physics) Planetary science Dynamical systems General Relativity Planetary Science Dynamical Systems
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction -- Spherically Symmetric General Relativity -- The Post-Newtonian Approximation -- Post-Newtonian Energy Integrals -- Post-Newtonian Satellite Orbits.
Sommario/riassunto	Owing to the increased accuracy requirements in fields such as astrometry and geodesy the general theory of relativity must be taken into account for any mission requiring highly accurate orbit information and for practically all observation and measurement techniques. This book highlights the confluence of Applied Mathematics, Physics and Space Science as seen from Einstein's general theory of relativity and aims to bridge the gap between theoretical and applied domains. The book investigates three distinct areas of general relativity: Exact solutions of the Einstein field equations of gravitation. Dynamics of near-Earth objects and solar system bodies. Relativistic orbitography. This book is an updated and expanded version of the author’s PhD thesis which was awarded the International Astronomical Union PhD prize in Division A: Fundamental Astronomy. Included is a new introduction aimed at graduate students of GeneralRelativity and extended discussions and results on topics in post-Newtonian dynamics and general relativistic spacecraft propagation.