1.	Record Nr.	UNINA9910789065803321
	Titolo	Spectroscopy, dynamics and molecular theory of carbon plasmas and vapors [[electronic resource]] : advances in the understanding of the most complex high-temperature elemental system / / editors, Laszlo Nemes, Stephan Irle ; foreword by Harold Kroto
	Pubbl/distr/stampa	Singapore ; ; London, : World Scientific, 2011
	ISBN	1-283-43328-1 9786613433282 981-283-765-5
	Descrizione fisica	1 online resource (536 p.)
	Altri autori (Persone)	NemesL IrleStephan KrotoHarold
	Disciplina	530.443 541.28
	Soggetti	Plasma (Ionized gases) Nanostructured materials Vapors Carbon Quantum theory Molecular spectroscopy Atomic spectroscopy
	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	Foreword; Preface; Contents; Experimental; Chapter 1 Spectroscopy of Carbon Nanotube Production Processes; 1. Introduction; 2. Arc Discharge; 3. Laser Plumes; 4. Glow Discharge; 5. Flames; 6. Conclusions; References; Chapter 2 Spectroscopic Studies on Laser-Produced Carbon Vapor; 1. Introduction; 2. Experimental Apparatus; 2.1. Laser ablation system; 2.2. Optical emission spectroscopy; 2.3. Laser-induced fluorescence imaging spectroscopy; 3. Optical Emission from Laser-Produced Carbon Vapor [Sasaki et al. (2002)]; 3.1. Temporal variation of optical emission intensity

Sommario/riassunto

This book is a stop-gap contribution to the science and technology of carbon plasmas and carbon vapors. It strives to cover two strongly related fields: the molecular quantum theory of carbon plasmas and carbon nanostructures; and the molecular and atomic spectroscopy of such plasmas and vapors. These two fields of research are strongly intertwined and thus reinforce one another. Even though the use of carbon nanostructures is increasing by the day and their practical uses are emerging, there is no modern review on carbon plasmas, especially from molecular theoretical and spectroscopic viewpoi

2. Record Nr.	UNINA9910143594503321
Titolo	Computer Aided Verification : 13th International Conference, CAV 2001, Paris, France, July 18-22, 2001. Proceedings / / edited by Gerard Berry, Hubert Comon, Alain Finkel
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2001
ISBN	3-540-44585-4
Edizione	[1st ed. 2001.]
Descrizione fisica	1 online resource (XIII, 522 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2102
Disciplina	005.74
Soggetti	Database management
	Computers
	Software engineering
	Computer logic
	Logic, Symbolic and mathematical
	Artificial intelligence
	Database Management
	Theory of Computation
	Software Engineering/Programming and Operating Systems
	Logics and Meanings of Programs
	Mathematical Logic and Formal Languages
	Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Talk -- Software Documentation and the Verification Process -- Model Checking and Theorem Proving -- Certifying Model Checkers -- Formalizing a JVML Verifier for Initialization in a Theorem Prover -- Automated Inductive Verification of Parameterized Protocols? -- Automata Techniques -- Efficient Model Checking Via Büchi Tableau Automata? -- Fast LTL to Büchi Automata Translation -- A Practical Approach to Coverage in Model Checking -- Verification Core Technology -- A Fast Bisimulation Algorithm -- Symmetry and Reduced Symmetry in Model Checking? -- Transformation-Based Verification

Using Generalized Retiming -- BDD and Decision Procedures -- Meta-BDDs: A Decomposed Representation for Layered Symbolic Manipulation of Boolean Functions -- CLEVER: Divide and Conquer Combinational Logic Equivalence VERification with False Negative Elimination -- Finite Instantiations in Equivalence Logic with Uninterpreted Functions -- Abstraction and Refinement -- Model Checking with Formula-Dependent Abstract Models -- Verifying Network Protocol Implementations by Symbolic Refinement Checking -- Automatic Abstraction for Verification of Timed Circuits and Systems? -- Combinations -- Automated Verification of a Randomized Distributed Consensus Protocol Using Cadence SMV and PRISM? -- Analysis of Recursive State Machines -- Parameterized Verification with Automatically Computed Inductive Assertions? -- Tool Presentations: Rewriting and Theorem-Proving Techniques -- EVC: A Validity Checker for the Logic of Equality with Uninterpreted Functions and Memories, Exploiting Positive Equality, and Conservative Transformations -- AGVI — Automatic Generation, Verification, and Implementation of Security Protocols -- ICS: Integrated Canonizer and Solver? -- µCRL: A Toolset for Analysing Algebraic Specifications -- Truth/SLC — A Parallel Verification Platform for Concurrent Systems -- The SLAM Toolkit -- Invited Talk -- Java Bytecode Verification: An Overview -- Infinite State Systems -- Iterating Transducers -- Attacking Symbolic State Explosion -- A Unifying Model Checking Approach for Safety Properties of Parameterized Systems -- A BDD-Based Model Checker for Recursive Programs -- Temporal Logics and Verification -- Model Checking the World Wide Web? -- Distributed Symbolic Model Checking for ?-Calculus -- Tool Presentations: Model-Checking and Automata Techniques -- The Temporal Logic Sugar -- TReX: A Tool for Reachability Analysis of Complex Systems -- BOOSTER: Speeding Up RTL Property Checking of Digital Designs by Word-Level Abstraction -- SDLcheck: A Model Checking Tool -- EASN: Integrating ASN.1 and Model Checking -- Rtdt: A Front-End for Efficient Model Checking of Synchronous Timing Diagrams -- TAXYS: A Tool for the Development and Verification of Real-Time Embedded Systems? -- Microprocessor Verification, Cache Coherence -- Microarchitecture Verification by Compositional Model Checking -- Rewriting for Symbolic Execution of State Machine Models -- Using Timestamping and History Variables to Verify Sequential Consistency -- SAT, BDDs, and Applications -- Benefits of Bounded Model Checking at an Industrial Setting -- Finding Bugs in an Alpha Microprocessor Using Satisfiability Solvers -- Towards Efficient Verification of Arithmetic Algorithms over Galois Fields GF(2m) -- Timed Automata -- Job-Shop Scheduling Using Timed Automata? -- As Cheap as Possible: Effcient Cost-Optimal Reachability for Priced Timed Automata -- Binary Reachability Analysis of Pushdown Timed Automata with Dense Clocks.

| Sommario/riassunto | This volume contains the proceedings of the conference on Computer-Aided Veric ation (CAV 2001),held in Paris, Palaisde laMutualit e, July 18 {22,2001. CAV 2001 was the 13th in a series of conferences dedicated to the advan- ment of the theory and practice of computer-assisted formal analysis methods for software and hardware systems. The CAV conference covers the spectrum from theoretical results to concrete applications, with an emphasis on practical veri cation tools and algorithms and techniques needed for their implemen- tion. ProgramCommitteeofCAV 2001 Rajeev Alur (Penn. &Bell labs) Bengt Jonsson (Uppsala) Henrik Reif Andersen (Copenhagen) Robert Kurshan (LucentBellLabs) G erard Berry (EsterelT. ,co-chair) Kim G. Larsen (Aalborg) Randy Bryant (CMU) Ken Mc Millan(Cadence) Jerry Burch (Cadence) Kedar Namjoshi (Belllabs) Ching-Tsun Chou (Intel) Christine |

Paulin-Mohring (Orsay) Edmund Clarke (CMU) Carl Pixley (Motorola) Hubert Comon (LSV& Stanford, co-chair) Kavita Ravi (Cadence) David Dill (Stanford) Natarajan Shankar (SRI) E. Allen Emerson (Austin) Mary Sheeran (Chalmers &Prover T.) Alain Finkel (LSV,co-chair) Tom Shiple (Synopsys) Patrice Godefroid (Belllabs) A.