1. Record Nr. UNINA9910144728303321

Titolo	3D laser microfabrication [[electronic resource]] : principles and applications / / edited by Hiroaki Misawa and Saulius Juodkazis
Pubbl/distr/stampa	Weinheim, : Wiley-VCH, c2006
ISBN	1-280-72338-6 9786610723386 3-527-60846-X 3-527-60840-0
Descrizione fisica	1 online resource (406 p.)
Altri autori (Persone)	MisawaHiroaki JuodkazisSaulius
Disciplina	621.366
Soggetti	Lasers - Industrial applications Microfabrication
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	3D Laser Microfabrication; Contents; List of Contributors; 1 Introduction; 2 Laser-Matter Interaction Confined Inside the Bulk of a Transparent Solid; 2.1 Introduction; 2.2 Laser-matter Interactions: Basic Processes and Governing Equations; 2.2.1 Laser Intensity Distribution in a Focal Domain; 2.2.2 Absorbed Energy Density Rate; 2.2.3 Electron-phonon (ions) Energy Exchange, Heat Conduction and Hydrodynamics: Two-temperature Approximation; 2.2.4 Temperature in the Absorption Region; 2.2.5 Absorption Mechanisms 2.2.6 Threshold for the Change in Optical and Material Properties ("Optical Damage")2.3 Nondestructive Interaction: Laser-induced Phase Transitions; 2.3.1 Electron-Phonon Energy Exchange Rate; 2.3.2 Phase Transition Criteria and Time; 2.3.3 Formation of Diffractive Structures in Different Materials; 2.3.3.1 Modifications Induced by Light in Noncrystalline Chalcogenide Glass; 2.3.3.2 Two-photon Excitation of Fluorescence; 2.3.3.3 Photopolymerization; 2.3.3.4 Photorefractive Effect; 2.4 Laser-Solid Interaction at High Intensity; 2.4.1 Limitations Imposed by the Laser Beam Self-focusing 2.4.2 Optical Breakdown: Ionization Mechanisms and Thresholds2.4.2.1

Sommario/riassunto

A thorough introduction to 3D laser microfabrication technology, leading readers from the fundamentals and theory to its various potent applications, such as the generation of tiny objects or three-dimensional structures within the bulk of transparent materials. The book also presents new theoretical material on dielectric breakdown, allowing a better understanding of the differences between optical damage on surfaces and inside the bulk, as well as a look into the future.Chemists, physicists, materials scientists and engineers will find this a valuable source of interdisciplinary know

2. Record Nr. UNISA996392217603316

Autore	Rodrigues Joao <1558-1633.>
Titolo	The palme of Christian fortitude. Or The glorious combats of Christians in Iaponia. Taken out of letters of the Society of Iesus from thence. Anno 1624 [[electronic resource]]
Pubbl/distr/stampa	[Saint-Omer, : Printed by the widow of C. Boscard] With permission of superiours, Anno 1630
Descrizione fisica	[16], 170, [4] p
Altri autori (Persone)	NevilleEdmund <1605-1647.>
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	A translation, by Edmund Neville, of a part of: Rodrigues, Joaìo. Lettera annua del Giappone dell' anno 1624. Printer's name and place of publication from STC. With two final contents leaves. Reproduction of the original in the Henry E. Huntington Library and Art Gallery.
Sommario/riassunto	eebo-0113

3. Record Nr. UNINA9910642936903321

Autore	Vachhani Leena
Titolo	Embedded control for mobile robotic applications / / Leena Vachhani, Pranjal Vyas, Arunkumar G. K
Pubbl/distr/stampa	Piscataway, New Jersey ; ; Hoboken, New Jersey : , : IEEE Press : , : Wiley, , [2022] ©2022
ISBN	1-119-81241-0 1-119-81239-9
Descrizione fisica	1 online resource (179 pages)
Collana	IEEE Press Series on Control Systems Theory and Applications Ser.
Disciplina	629.892
Soggetti	Robotics Electronic controllers Embedded computer systems Field programmable gate arrays
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Preface -- Acknowledgments -- Acronyms -- Introduction -- About the Companion Website -- Chapter 1 Embedded Technology for Mobile Robotics -- 1.1 Embedded Control System -- 1.2 Mobile Robotics -- 1.2.1 Robot Model for 2D Motion -- 1.2.1.1 Generic Model -- 1.2.1.2 Unicycle Model -- 1.2.1.3 DifferentialDrive Mobile Robot or DDMR -- 1.2.1.4 Front Wheel Steering Robot or FWSR -- 1.2.1.5 Chained form of Unicycle -- 1.2.1.6 Single Integrator Model of Unicycle -- 1.2.1.7 Discretetime Unicycle Model -- 1.2.2 Robot Model for 3D Motion -- 1.2.2.1 Quadcopter-An Aerial Vehicle -- 1.2.2.2 SixThrusters Configuration-An Underwater Vehicle -- 1.3 Embedded Technology -- 1.3.1 Processor Technology -- 1.3.2 IC Technology -- 1.4 Commercially Available Embedded Processors -- 1.4.1 Microprocessor -- 1.4.2 Microcontroller -- 1.4.3 Field Programmable Gate Arrays (FPGA) -- 1.4.4 Digital Signal Processor -- 1.5 Notes and Further Readings -- Chapter 2 Discretetime Controller Design -- 2.1 Transfer Function for Equivalent Discretetime System -- 2.2 Discretetime PID