1. Record Nr. UNINA9910777053403321

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Titolo	The evolution of a manufacturing system at Toyota [[electronic resource] /] / Takahiro Fujimoto
Pubbl/distr/stampa	New York, : Oxford University Press, 1999
ISBN	0-19-770288-0 1-280-76109-1 9786610761098 0-19-535263-7
Descrizione fisica	1 online resource (391 p.)
Disciplina	629.2/34
Soggetti	Automobiles - Design and construction Industrial efficiency Operations research Toyota automobiles
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 (p. 349-364) and index.
Nota di contenuto	pt. 1. Emergence and functions of the total manufacturing system -- pt. 2. Emergence and functions of the three subsystems: supplier, development, and production.
Sommario/riassunto	PART I: Emergence and Functions of the Total Manufacturing System. 1. An Evolutionary Framework for Manufacturing. 2. System Emergence at Toyota: History. 3. System Emergence at Toyota: Reinterpretation. 4. The Anatomy of Manufacturing Routines: An Information View. PART II: Emergence and Functions of the Three Subsystems: Supplier, Development, and Production. 5. Evolution of the Black Box Parts Supplier System. 6. Evolution of Product Development Routines. 7. Evolution of Toyota's New Assembly System. 8. Conclusion: Toyota as a ""Prepared Organization"". Appendix A. The Evolutionary Framewor

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Autore	Gu Dongdong
Titolo	Laser Additive Manufacturing of High-Performance Materials / / by Dongdong Gu
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-662-46089-0
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (322 p.)
Disciplina	530.41 535.2 537.6 620 620.16 621.36 670
Soggetti	Manufactures Metals Lasers Electrodynamics Condensed matter Machines, Tools, Processes Metals and Alloys Laser Classical Electrodynamics Condensed Matter Physics
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.
Nota di contenuto	Introduction -- Laser Additive Manufacturing (AM): Classification, Processing Philosophy, and Metallurgical Mechanisms -- Novel Ti-Based Nanocomposites by Selective Laser Melting (SLM) Additive Manufacturing (AM): Tailored Nanostructure and Performance -- In Situ Ti–Si Intermetallic-Based Composites by Selective Laser Melting (SLM) Additive Manufacturing (AM): Designed Materials and Laser-Tailored In

Situ Formation -- In Situ WC Cemented Carbide Based Hardmetals by Selective Laser Melting (SLM) Additive Manufacturing (AM): Microstructure Characteristics and Formation Mechanisms -- Nanoscale TiC Particle Reinforced AlSi10Mg Bulk-Form Nanocomposites by Selective Laser Melting (SLM) Additive Manufacturing (AM): Tailored Microstructures and Enhanced Properties -- Novel Aluminum Based Composites by Selective Laser Melting (SLM) Additive Manufacturing (AM): Tailored Formation of Multiple Reinforcing Phases and its Mechanisms -- Particle Reinforced Cu Matrix Composites by Direct Metal Laser Sintering (DMLS) Additive Manufacturing (AM): Interface Design, Material Optimization, and Process Control -- Nano/Micron W–Cu Composites by Direct Metal Laser Sintering (DMLS) Additive Manufacturing (AM): Unique Laser-Induced Metallurgical Behavior of Insoluble System -- Summary and Prospective View.

Sommario/riassunto

This book entitled “Laser Additive Manufacturing of High-Performance Materials” covers the specific aspects of laser additive manufacturing of high-performance new materials components based on an unconventional materials incremental manufacturing philosophy, in terms of materials design and preparation, process control and optimization, and theories of physical and chemical metallurgy. This book describes the capabilities and characteristics of the development of new metallic materials components by laser additive manufacturing process, including nanostructured materials, in situ composite materials, particle reinforced metal matrix composites, etc. The topics presented in this book, similar as laser additive manufacturing technology itself, show a significant interdisciplinary feature, integrating laser technology, materials science, metallurgical engineering, and mechanical engineering. This is a book for researchers, students, practicing engineers, and manufacturing industry professionals interested in laser additive manufacturing and laser materials processing. Dongdong Gu is a Professor at College of Materials Science and Technology, Nanjing University of Aeronautics and Astronautics (NUAA), PR China.