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Titolo	Technology transfer between the US, China, and Taiwan : moving knowledge / / edited by Douglas B. Fuller, Murray A. Rubinstein
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Altri autori (Persone)	FullerDouglas B RubinsteinMurray A. <1942->
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Nota di contenuto	Cover; Title; Copyright; Contents; List of figures; List of tables; Notes on contributors; Introduction; 1 The KMT and science and technology, 1927-1980; 2 The evolution of Taiwan's economic miracle 1945-2000: personal accounts and political narratives; 3 Taiwan's techno-hybrid development model: Taiwan's industrial policies for high-technology sectors 1975-2012; 4 Global reorganization of the IT industry and the rise of Greater China; 5 Divergent engagements: comparing the roles and strategies of Taiwanese and mainland Chinese returnee entrepreneurs in the IT industry 6 Spatial clustering and organizational dynamics of trans-border production networks: a case study of Taiwanese IT companies in the Greater Suzhou region, China 7 The cross-strait economic relationship's impact on development in Taiwan and China: adversaries and partners across the Taiwan Strait ; Conclusion; Index
Sommario/riassunto	"Examining the flow of technical knowledge between the US, Taiwan

and Mainland China over the last sixty-five years, this book shows that the technical knowledge that has moved between these states is vast and varied. It includes the invention and production of industrial goods, as well as knowledge of the patterns of corporate organization and management, indeed, this diversity is reflected in the process itself, which is driven both by returning expatriates with knowledge acquired overseas and by successful government intervention in acquiring technology from multinational firms. Technology Transfer Between the US, China and Taiwan engages with the evolving debates on the merits, importance and feasibility of technology transfer in the process of economic development globally, and uses the example of Taiwan to show that multinational corporations can indeed play a positive role in economic development. Further, it reveals the underlying tension between international cooperation and nationalism which inevitably accompanies international exchanges, as well as the delicate balancing act required between knowledge acquisition and dangerous levels of dependency, and the beneficial role of the US in East Asia's technological development. With contributors from disciplines ranging from history, geography, urban planning, sociology, political science and electrical engineering, this multi-disciplinary book will be of great interest to students and scholars working across a broad range of subjects including Taiwan studies, Chinese studies, economics, business studies and development studies"--

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Autore	Mouton Yves
Titolo	Organic materials in civil engineering [[electronic resource] /] / Yves Mouton
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Nota di contenuto	Organic Materials in Civil Engineering; Table of Contents; Introduction; Chapter 1. Organic Polymers; 1.1. Definitions; 1.2. Macromolecular structure; 1.3. Synthesis of polymers; 1.3.1. Step polymerization or polycondensation; 1.3.1.1. Mechanism of polycondensation: polycondensation and polyaddition; 1.3.1.2. Practical applications; 1.3.2. Chain polymerization or polymerization strictly speaking; 1.4. Processing: thermoplastics and thermosets; 1.4.1. Thermoplastics and thermosets, thermorigid or thermohard; 1.4.2. Monocomponent and bicomponent; 1.5. Elastomers; 1.6. Preliminary conclusions 1.7. Crystalline polymers and amorphous polymers: glass transition1. 7.1. Notion of crystalline polymer; 1.7.2. Amorphous polymers: glass transition; 1.8. Mechanical behaviors of polymers: time-temperature equivalence; 1.8.1. Elastic behavior; 1.8.2. Elasto-plastic behavior; 1.8.3. Rubber-like behavior; 1.8.4. Case of cross-linked polymers; 1.8.5. Pure products and formulated products: plasticization; 1.8.6.

Time-temperature equivalence; 1.9. Miscibility of polymers: concept of alloy; 1.9.1. Notion of solubility parameter; 1.9.2. Estimation of the solubility
1.9.3. Polymer-polymer mixtures: notion of alloy1.10. Durability and aging of polymers: life cycles; 1.10.1. Notion of aging; 1.10.2. Principles of the methods for appreciating the life of materials; 1.10.3. Fire behavior of polymers; 1.10.4. General information on the life cycle of polymers; 1.11. Organic materials, the environment and health: evolution of the market; 1.12. Main organic and organo-metallic polymers used in civil engineering; 1.13. General conclusion; Chapter 2. Organic Binders I. Bitumen and Road Construction; 2.1. General terminology; 2.2. Manufacture of bitumen
2.3. Physico-chemical composition of bitumens2.4. Various forms of bitumen; 2.4.1. Paving bitumens: characterization and classification; 2.4.2. Fluid binders; 2.4.3. Bitumen emulsions; 2.4.3.1. Formation of an emulsion; 2.4.3.2. Failure of emulsions; 2.4.3.3. Characterization of emulsions: applications; 2.5. Usage properties of paving bitumen; 2.6. Adhesiveness; 2.7. Rheological properties; 2.7.1. Viscosity; 2.7.2. Viscoelasticity; 2.7.3. Complex modulus; 2.7.4. Towards a rheological classification; 2.7.5. The SHRP program - Test methods and specifications of road binders
2.7.6. Bending beam creep or BBR test2.8. Aging of bitumen; 2.9. Limits in the use of bitumen: quest for an ideal binder; 2.10. Modified bitumens, bitumens with additives and special bitumens; 2.10.1. Physico-chemical characterization of polymer modified bitumens; 2.10.2. Practical applications; 2.10.3. Bitumens with additives; 2.10.4. Special paving bitumens; 2.11. Regeneration binders; 2.12. Other uses of bitumen in civil engineering; 2.13. General conclusion; Chapter 3. Organic Binders II. Materials for the Conservation of Heritage and Safety; 3.1. Concrete repair and protection products
3.1.1. Products and systems for the protection and repair of concrete structures: normative definitions

Sommario/riassunto

This book provides an inventory of organic materials and products, the major components of all civil engineering projects, in terms of their scientific and technical background, including the regulations that cover their use and their predicted useful life. Such materials include: bitumen on the roads; geotextiles for retaining walls; membranes for bridges; tunnel and reservoir waterproofing; paint binders to protect metallic and concrete structures or to create road markings; injection resins; gluing products; concrete admixtures; and composite materials. The presentation is based on a ph