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Titolo	Essential rubber formulary [[electronic resource]] : formulas for practitioners / / V.C. Chandrasekaran
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Collana	PDL, Plastics Design Library
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Soggetti	Rubber goods Rubber chemistry Chemistry, Technical
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Nota di contenuto	Front Cover; Essential Rubber Formulary: Formulas for Practitioners; Copyright Page; Contents; Preface; Part 1: About Rubber; Chapter 1. Introduction; Chapter 2. Brief Notes on Compounding Ingredients; 2.1 Accelerators; 2.2 Vulcanizing Agents; 2.3 Activators; 2.4 Antioxidants; 2.5 Fillers and Reinforcing Agents; 2.6 Retarders; 2.7 Process Oils/Softeners; Chapter 3. Some Hints on Rubber Compounding Techniques; Chapter 4. Note on Reclaimed Rubber; Chapter 5. Rubber Content in Products; Chapter 6. Note on Coloring of Rubbers; Chapter 7. Typical Rubber Testing Methods; 7.1 Prelude 7.2 Tests on Unvulcanized Rubber Stocks7.3 Tests on Vulcanized Rubbers; Part 2: Formulary; Chapter 8. Thin Coatings; 8.1 Introduction; 8.2 The Gray Coating of Hypalon; 8.3 The Black Coating of Neoprene; 8.4 Black Brushing; 8.5 Gray Brushing; Chapter 9. Oil Seals and "O" Rings; 9.1 Introduction; 9.2 Rotary Seal (Neoprene)-85°A; 9.3 "O" Ring (Neoprene)-60°A; 9.4 Rotary Seal (Nitrile)-60°A; 9.5 Rotary Seal (Nitrile) -80°A; 9.6 Rotary Seal (Nitrile)-75°A; 9.7 "O" Rings (Nitrile)-65°A; 9.8 "O" Rings (Nitrile 1)-60°A; 9.9 "O" Rings (Nitrile 2)-60°A

9.10 "O" Ring Compound (Styrene-Butadiene Rubber, SBR)-55°A9.11 Rotary Seal (Natural Rubber)-85°A; 9.12 "O" Rings (Natural Rubber) for Pipe Couplings-60°A; 9.13 Rotary Seal (SBR)-90°A; 9.14 Rotary Seal (Nitrile)-75°A; 9.15 "O" Rings (Nitrile)-60°A; 9.16 Rotary Seal (Blend of Nitrile/SBR)-75°A; 9.17 Rotary Seal (Neoprene)-85°A; 9.18 Rotary Seal (Neoprene)-95°A; 9.19 "O" Ring (Neoprene)-65°A; 9.20 Butyl Rubber Seal-75°A; 9.21 Bromobutyl Seal-70°A; 9.22 "O" Ring Thiokol (Polysulfide Rubber) for Airborne Applications; 9.23 Typical Nitrile Sealing Formulations for Airborne Applications
9.24 Rotary Seal (Hypalon)9.25 Rotary Seal (Nitrile/PVC Blend)-80°A; 9.26 "O" Ring (Nitrile/PVC Blend)-65°A; 9.27 Rotary Seal with Viton for Airborne Applications; 9.28 Nitrile Rubber Ebonite for Oil Resistant Products; Chapter 10. Beltings-Transmission, Conveyor, and V-Belts; 10.1 Introduction; 10.2 V-Belt Inner Layer (Natural Rubber); 10.3 Cord Friction Compound; 10.4 Latex-Based Solution for Cord Dipping; 10.5 Transmission Belting; 10.6 Conveyor Belt Cover Compound (Natural Rubber); 10.7 Conveyor Belt Cover Compound (Flame Proof); 10.8 Conveyor Belt Cover (Natural Rubber/SBR Blend)
10.9 Oil Resistant Raw Edge V-BeltChapter 11. Auto Rubber Components (Molded); 11.1 Introduction; 11.2 Shock Absorber-55°A; 11.3 Shock Absorber-65°A; 11.4 Shock Absorber 1-60°A; 11.5 Shock Absorber 2-60°A; 11.6 Stabilizer Bar Bush-60°A; 11.7 Stabilizer Bar Bush-67°A; 11.8 Adhesive Bonding Agent for Fabric Insertion Sheets; 11.9 Repair Cement for Automotive Belts; 11.10 Metal-Bonded Engine Mountings-45°A; 11.11 Tire Flaps-60°A; 11.12 Window Channel Extrusion for Cars (Natural Rubber); 11.13 Window Channel Extrusion for Cars (Styrene-Butadiene Rubber (SBR))
11.14 Neoprene Dust Covers for the Auto Industry-58°A

Sommario/riassunto

The author, a seasoned rubber technologist of four decades, provides more than 180 essential rubber formularies, some of which have never been published, that are used by practitioners the world over on a frequent basis. A special feature of the formulations is that they are designed for factory scale applications.The opening chapter of this indispensable book gives practical information on compounding techniques, coloring, ingredients, as well as a whole section on typical rubber testing methods. The book concludes with appendices useful for the technologist that include seven convers

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Autore	Chibbaro Sergio
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ISBN	3-319-06361-8
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (171 p.)
Disciplina	501 530 530.01 530.12
Soggetti	Physics Philosophy and science Statistical physics Dynamics Quantum theory History and Philosophical Foundations of Physics Philosophy of Science Complex Systems Quantum Physics Statistical Physics and Dynamical Systems
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	Preface -- A Galilean Dialogue -- A random journey -- History -- Reductionism: the philosophical point of view -- Reduction in physics and philosophy -- Emergence -- A first attempt to tame complexity -- A short history of statistical mechanics -- Towards a systematic theory -- The paradigmatic Brownian motion -- Critical Phenomena -- Discussion -- From microscopic to macroscopic realities -- The problem of irreversibility -- Irreversibility and emergence -- From microscopic to macroscopic equations -- From atoms to cold fronts --

Concluding remarks -- Determinism, chaos and reductionism -- General remarks on determinism -- An excursus on chaos -- Chaos and complexity -- Chaos and probability -- Quarrels on chaos and determinism -- Concluding remarks -- Quantum Mechanics -- Classical versus quantum mechanics -- Chemistry vs applied Quantum Mechanics -- Summary and conclusions -- Some conclusions -- Unity of science beyond reductionism -- It from bit? -- Concluding remarks.

Sommario/riassunto

Scientists have always attempted to explain the world in terms of a few unifying principles. In the fifth century B.C. Democritus boldly claimed that reality is simply a collection of indivisible and eternal parts or atoms. Over the centuries his doctrine has remained a landmark, and much progress in physics is due to its distinction between subjective perception and objective reality. This book discusses theory reduction in physics, which states that the whole is nothing more than the sum of its parts: the properties of things are directly determined by their constituent parts. Reductionism deals with the relation between different theories that address different levels of reality, and uses extrapolations to apply that relation in different sciences. Reality shows a complex structure of connections, and the dream of a unified interpretation of all phenomena in several simple laws continues to attract anyone with genuine philosophical and scientific interests. If the most radical reductionist point of view is correct, the relationship between disciplines is strictly inclusive: chemistry becomes physics, biology becomes chemistry, and so on. Eventually, only one science, indeed just a single theory, would survive, with all others merging in the Theory of Everything. Is the current coexistence of different sciences a mere historical venture which will end when the Theory of Everything has been established? Can there be a unified description of nature? Rather than an analysis of full reductionism, this book focuses on aspects of theory reduction in physics and stimulates reflection on related questions: is there any evidence of actual reduction? Are the examples used in the philosophy of science too simplistic? What has been endangered by the search for (the) ultimate truth? Has the dream of reductionist reason created any monsters? Is big science one such monster? What is the point of embedding science Y within science X, if predictions cannot be made on that basis?