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Altri autori (Persone)	ChenNianyi
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Nota di bibliografia	Includes bibliographical references (p. 319-327) and index.
Nota di contenuto	1. Introduction. 1.1. Support vector machine: data processing method for problems of small sample size. 1.2. Support vector machine: data processing method for complicated data sets in chemistry. 1.3. Underfitting and overfitting: problems of machine learning. 1.4. Theory of overfitting and underfitting control, ERM and SRM principles of statistical learning theory. 1.5. Concept of large margin - a basic concept of SVM. 1.6. Kernel functions: technique for nonlinear data processing by linear algorithm. 1.7. Support vector regression: regression based on principle of statistical learning theory. 1.8. Other machine learning methods related to statistical learning theory. 1.9. Some comments on the application of SVM in chemistry -- 2. Support Vector Machine. 2.1. Margin and optimal separating plane. 2.2. Interpretation by statistical learning theory. 2.3. Support vector classification. 2.4. Support vector regression. 2.5 V-SVM -- 3. Kernel functions. 3.1. Introduction. 3.2. Mercer kernel. 3.3. Properties of kernel. 3.4. Kernel selection -- 4. Feature selection using support vector machine. 4.1. Significance and difficulty of feature selection in chemical data processing. 4.2. SVM-BFS - application of wrapper

method and floating search method. 4.3. SVM-RFE: application of optimal brain damage and recursive feature elimination. 4.4. Multitask learning. 4.5. Computer experiments: feature selection of artificially generated data set -- 5. Principle of atomic or molecular parameter-data processing method. 5.1. Two different strategies for structure-property relationship investigation. 5.2. Number of valence electrons of atoms. 5.3. Ionization potential of atoms. 5.4. Atomic radii and ionic radii. 5.5. Electronegativity. 5.6. Charge-radius ratio. 5.7. Topological parameters of molecules and 3-D molecular descriptors. 5.8. Atomic parameters for ionic systems. 5.9. Atomic parameters for covalent compounds. 5.10. Atomic parameters for metallic systems -- 6. SVM applied to phase diagram assessment and prediction. 6.1. Comprehensive assessment and computerized prediction of phase diagrams. 6.2. Atomic parameter-pattern recognition method for phase diagram prediction. 6.3. Prediction of intermediate compound formation. 6.4. Prediction of formation of extended solid solutions. 6.5. Prediction of melting types of intermediate compounds. 6.6. Modeling of melting points or decomposition temperature of intermediate compounds. 6.7. Prediction of crystal types of intermediate compounds. 6.8. Modeling of liquid-liquid immiscibility of inorganic systems. 6.9. SVM applied to intelligent database of phase diagrams. 7. SVM applied to thermodynamic property prediction. 7.1. Significance of estimation of thermodynamic properties of chemical substances. 7.2. Modeling of enthalpy of formation of compounds. 7.3. Modeling of free energy of mixing of liquid alloy systems. 7.4 Prediction of activity coefficient of concentrated electrolyte solutions. 7.5. Regularity of the solubility of C[symbol] in organic solvents -- 8. SVM applied to molecular and materials design. 8.1. concepts of molecular design and materials design. 8.2. SVM applied to new compound synthesis problems. 8.3. SVM applied to the computerized prediction of properties of materials. 8.4. SVM applied to process design for materials preparation -- 9. SVM applied to structure-activity relationships. 9.1. Concept of Structure-Activity Relationships (SAR). 9.2. Brief Introduction to some of chemometric methods used in SAR. 9.3. Brief introduction to molecular descriptors used in SAR. 9.4 SAR of N-(3-Oxo-3,4-dihydro-2H-benzo[1,4]oxazine-6-carbonyl) guanidines. 9.5. SAR of triazole-derivatives. 9.6. SAR of the 5-hydroxytryptamine receptor antagonists. 9.7. QSAR of N-phenylacetamides as herbicides -- 10. SVM applied to data of trace element analysis. 10.1. Trace element science and chemical data processing. 10.2. SVM applied to trace element analysis of human hair. 10.3. SVM applied to trace elements analysis of cigarettes. 10.4. SVM applied to trace element analysis of tea -- 11. SVM applied to archeological chemistry of ancient ceramics. 11.1. SVM applied to archeological data processing. 11.2. Identification of Jun Wares of Song Dynasty. 11.3. Modeling of official Ru Wares. 11.4. Modeling of composition of Yue Wares. 11.5. Modeling of composition of blue and white porcelain samples. 11.6. Archeological research of ancient porcelain kilns. 11.7. Period discrimination of ancient samples -- 12. SVM applied to cancer research. 12.1. SVM applied to cancer epidemiology. 12.2. Carcinogenic and environmental behaviors of polycyclic aromatic hydrocarbons. 12.3. SVM applied to cancer diagnosis -- 13. SVM applied to some topics of chemical analysis. 13.1. Multivariate calibration in chemical analysis. 13.2. Retention indices estimation in chromatography. 13.3. Detection of hidden explosives -- 14. SVM applied to chemical and metallurgical technology. 14.1. Physico-chemical basis of modeling of chemical processes. 14.2. Characteristics of data processing for industrial process modeling. 14.3. Optimal zone: strategy of large

margin search. 14.4. Application of strategy of large margin search. 14.5. Optimal control for target maximization or minimization. 14.6. Optimal control for problem of restricted response. 14.7. Materials properties estimation for production process. 14.8. Comprehensive strategy for industrial optimization.

2. Record Nr.	UNINA9910785524803321
Autore	Jones Bob Morris
Titolo	The Welsh answering system // Bob Morris Jones
Pubbl/distr/stampa	Berlin ; ; New York, : Mouton de Gruyter, 1999
ISBN	3-11-080059-4
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Collana	Trends in Linguistics. Studies and Monographs [TiLSM] ; ; 120
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Disciplina	491.6/6/0141
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Nota di contenuto	Front matter -- Preface -- Contents -- Acknowledgements -- List of figures -- List of tables -- 1. Answering systems -- 2. Welsh echo responsives -- 3. Welsh echo and nonecho responsives -- 4. Discourse functions of Welsh responsives -- 5. A formal analysis of Welsh responsives -- 6. Children's use of Welsh responsives -- 7. Language contact: the influence of English -- 8. Internal causes of variation -- Appendix I. Conventions in the corpus examples -- Appendix II. Conventions in the interlinear glosses -- Appendix III. Additional examples of responsives -- Appendix IV. Examples of formal answering systems -- Notes -- References -- Index -- Errata -- Back matter

3. Record Nr.	UNINA9911006588203321
Autore	Chandrasekaran V. C
Titolo	Essential rubber formulary : formulas for practitioners // V.C. Chandrasekaran
Pubbl/distr/stampa	Norwich, NY, : William Andrew Pub., c2007
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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 Stocks 7.3 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°A; 9.11 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

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## 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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