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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

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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-Belt Chapter 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 covers
