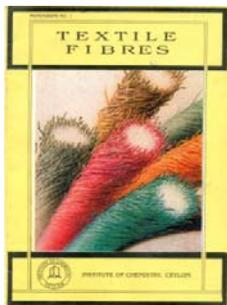


TEXTILE FIBRES



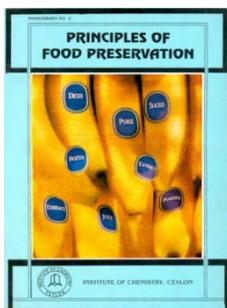
Author: T Rajasekaran

Monograph No: 1

The monograph gives a brief introduction to textile fibers and then gives the classification of the various types of fibers, their origin and properties. Man-made fibers and the different types of these man-made fibers are dealt in with in detail.

ISBN: 955-9244-01-9

PRINCIPLES OF FOOD PRESERVATION



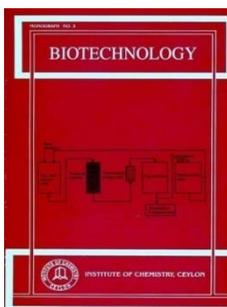
Author: Upali Samarajeewa

Monograph No: 2

The monograph provides some of the widely used preservation techniques. It focuses on the various methods used in Drying, preservation through Concentration, Osmotic Dehydration, Low temperature treatments, high temperature treatments such as pasteurization, sterilization, blanching, cooking, and methods such as fermentation and irradiation.

ISBN: 955-9244-02-7

BIOTECHNOLOGY



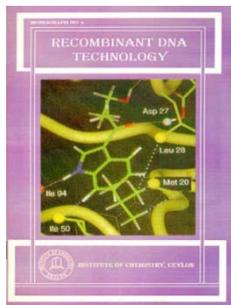
Author: C P D W Mathew

Monograph No: 3

The monograph gives a small description of the title and further proceeds on to discuss the use of free enzyme in industry, the immobilized enzymes, the use of biotechnology in areas like medicine, agriculture, Mining industry and in the treatment of waste water and sewage.

ISBN: 955-9244-03-5

RECOMBINANT DNA TECHNOLOGY



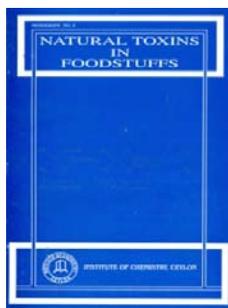
Author: Jayantha welihinda

Monograph No: 4

The monograph deals with the DNA molecule and the genetic code, Gene cloning and DNA cleavage. Further it gives more information on the Applications of Gene Cloning and DNA amplification, and the applications of recombinant DNA technology.

ISBN: 955-9244-04-3

NATURAL TOXINS IN FOODSTUFFS



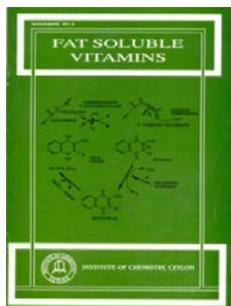
Authors: E R Jansz and Aruni Shamalee Perera

Monograph No: 5

The monograph starts with a brief introduction of the natural toxins in foodstuffs and further goes on to give details on protease Inhibitors, Cynogenic Glucosides, Lectins, α -Amylase inhibitors, Toxins in Animal based foods, less common toxins in legumes, aflatoxins and Miscellaneous toxins

ISBN: 955-9244-04-3

FAT SOLUBLE VITAMINS



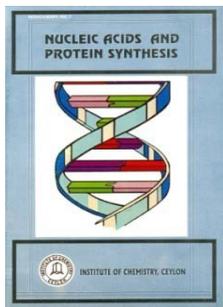
Authors: E R Jansz and Thushari Sugandika Malalavidhane

Monograph No: 6

The chemistry of the various fat soluble vitamins, their occurrence in food, their sources and the fate of the ingested vitamin are discussed in the monograph. The functions and the mechanism of action of these vitamins, the effects caused by the deficiency of these vitamins, hypervitaminoses are dealt in detail in the monograph.

ISBN: 955-9244-06-x

NUCLEIC ACIDS AND PROTEIN SYNTHESIS



Author: Jayantha Welihinda

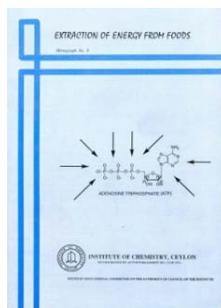
Monograph No:7

The monograph deals in brief with the chemical structures of the DNA, RNA molecule, the DNA replication, the genetic code, transcription and translation. It also gives includes the synthesis in Prokaryotes, the inhibition of Protein synthesis by antibiotics and toxins.

ISBN: 955-9244-07-8

Bar Code No: 9 789559 244097

EXTRACTION OF ENERGY FROM FOODS



Author: Jayantha Welihinda

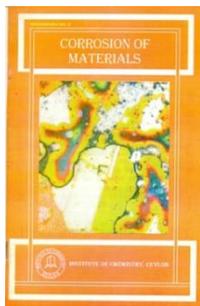
Monograph No: 8

The monograph gives a brief introduction to the ATP molecule, it further gives an account of the synthesis of the ATP molecule, and the main metabolic pathways which are responsible for the production of energy from food. It also deals with the catabolism of Alcohol.

ISBN: 955-9244-07-8

Bar Code No: 9 789559 244097

CORROSION OF MATERIALS



Author: A M M Amirudin

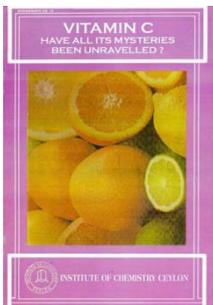
Monograph No: 9

The monograph includes a small introduction to corrosion, also the various reactions that occur during corrosion, the types of degradation caused by corrosion, the corrosion that occurs on various material types, the environmental factors that govern corrosion the prevention of corrosion on materials and the testing of corrosion is also given included in the monograph.

ISBN: 955-9244-09-4

Bar Code No: 9 789559 244097

VITAMIN C



Authors: E R Jansz & S T C Mahavithanage

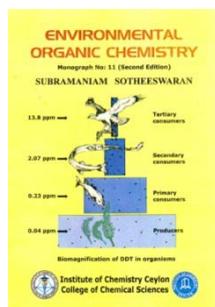
Monograph No: 10

The monograph provides information on the basic chemistry of Vitamin C, the occurrence of it in food, the analytical techniques of determining Vitamin C, biosynthesis of ascorbic acid, the role of ascorbic acid in protection from diseases. It also gives an account of ascorbic acid acting as an antioxidant.

ISBN: 955-9244-10-8

Bar Code No: 9 789559 244103

ENVIRONMENTAL ORGANIC CHEMISTRY



Author: Subramaniam Sothesswaran

Monograph No: 11

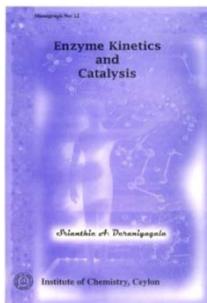
The monograph gives details about the anthropogenic, biogenic hydrocarbons, the free radical reactions of hydrocarbons in atmosphere, the chemicals that cause O₃ destruction, organo chlorines, organo metallic compounds and pharmaceutical pollutants in the environment. The environmental effects due to

chemical weapons, industrial explosions and the organic chemicals in detergents and washing powders are also discussed in the monograph.

ISBN: 955-9244-26-4

Bar Code No: 9 789559 244127

ENZYME KINETICS AND CATALYSIS



Author: Srianthie Deraniyagala

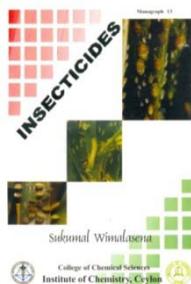
Monograph No: 12

The monograph provides an account for enzymes as catalysts, followed by the discussion of the kinetics of enzyme catalysis, and then the multi substrate enzyme reactions. The monograph also deals with in detail the enzyme inhibition.

ISBN: 955-9244-11-6

Bar Code No: 9 789559 244110

INSECTICIDES



Author: Sukumal Wimalasena

Monograph N: 13

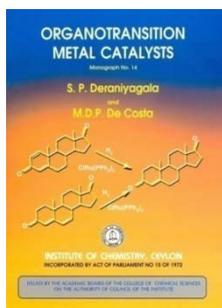
The monograph gives a basic description of the topic, the legislation to control the use of pesticides in Sri Lanka, the toxicology of insecticides, toxicity measurements and the classification of insecticides. Also includes the structure and synthesis of the synthetic insecticides, the metabolism and

degradation of insecticides.

ISBN: 955-9244-17-5

Bar Code No: 9 789559 244172

ORGANO TRANSITION METAL CATALYSTS



Authors: Samitha P Deraniyagala & M Dayal P De Costa

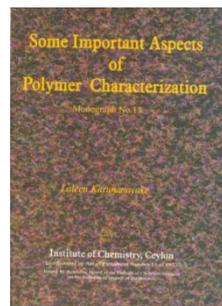
Monograph No: 14

The monograph mainly deals with the Organo transition metal catalysts used in various industries. The monograph deals briefly with the Organo-transition metallic reaction pathways. Homogeneous and Heterogeneous catalysts are also dealt with in detail, separately.

ISBN: 955-9544-15-9

Bar Code No: 9 789559 244158

SOME IMPORATANT ASPECTS OF POLMER CHARACTERIZATION



Author: Laleen Karunanayake

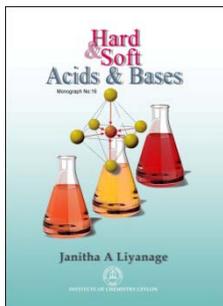
Monograph No: 15

The monograph starts with the conformation of polymers and further goes on to explain some solid state properties of polymers and the thermodynamics of polymer solutions. It also discusses the measurement Molar masses of polymers, and the different techniques involved in it.

ISBN: 955-9244-16-7

Bar Code No: 9 789559 244165

HARD AND SOFT ACIDS AND BASES



Author: Janitha A Liyanage

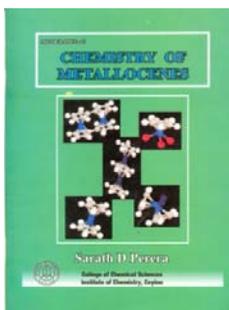
Monograph No: 16

The monograph gives a brief summary of the conventional explanation of acids and bases. Further it proceeds to explain various theories extending up to Quantum-Mechanical theories.

ISBN: 955-9244-18-3

Bar Code No: 9 789559 244189

CHEMISTRY OF METALLOCENES



Author: Sarath D Perera

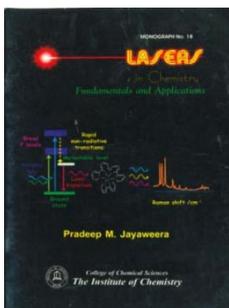
Monograph No: 17

The monograph starts with a small introduction to the title and the classification of metallocenes. Followed by the synthesis of various types of metallocenes, the bonding properties and the reactions of ferrocene are dealt with in detail. The last chapter deals with the various applications of metallocenes in various areas.

ISBN: 955-9244-19-1

Bar Code No: 9 789559 244196

LASERS



Author: Pradeep M Jayaweera

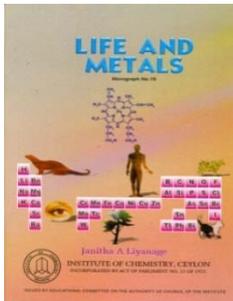
Monograph No: 18

The monograph describes the basic principles of operation of lasers, the various types of laser sources along with the applications in spectroscopy involving these powerful sources of light.

ISBN: 955-9244-20-5

Bar Code No: 9 789559 244 202

LIFE AND METALS



Author: Janitha A Liyanage

Monograph No: 19

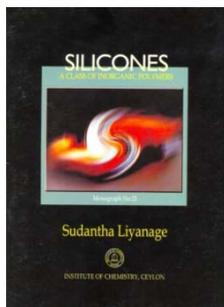
Gives a qualitative picture on metal ions in metabolisms thus leading towards the other thermodynamic aspects and kinetics of metal complexes in metabolic activities. The monograph gives the elemental composition of the human body, the effect of metals on health and the role of metal

chelation in biological systems.

ISBN: 955-9244-13-2

Bar Code No: 9 789559 244134

SILICONES



Author: Professor Sudantha Liyanage

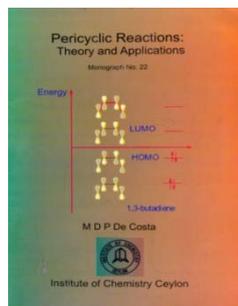
Monograph No: 21

The monograph deals with a class of Inorganic Polymers, Silicones, which have a wide use as fluids, oils, rubbers and emulsions. It includes a small introduction to silicones, and goes on further to give details about the preparation of these compounds, the vulcanization of this polymer and deals with their important properties and applications. The last chapter deals with the degradation of these polymers.

ISBN: 955-9244-21-3

Bar Code No: 9 789559 244219

PERICYCLIC REACTIONS THEORY & APPLICATIONS



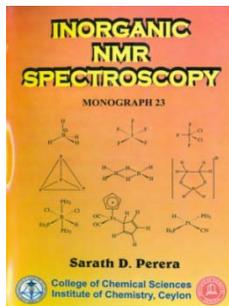
Author: M Dayal P De Costa

Monograph No: 22

This monograph deals with the different classes of pericyclic reactions, and the various theories and selection rules that govern these reactions. The topology of the orbital interactions involved in the reaction and some examples are also explained.

ISBN 955-9244-25-6 **Bar code no:** 9 789559 244257

INORGANIC NMR SPECTROSCOPY



Author: Sarath D Perera

Monograph No: 23

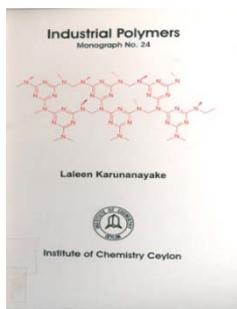
The monograph provides a brief introduction to the theory of NMR, and to other basic concepts and terms used in it. It further proceeds onto giving details and discussing the use of ^1H , ^{13}C , ^{19}F , ^{31}P , ^{11}B and ^{195}Pt NMR Spectroscopy for structural determination of inorganic and Organo metallic

complexes.

ISBN: 955-9244-26-4

Bar Code No: 9 789559 244264

INDUSTRIAL POLYMERS



Author: Laleen Karunanayake

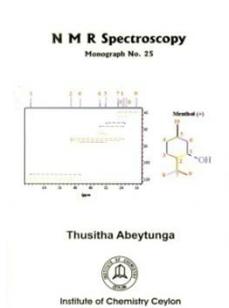
Monograph No: 24

It mainly Deals with various groups of industrially used polymers such as elastomers, thermoplastics, thermosets and fibers along with their essential features, reactions and modes of action.

ISBN: 955-9244-28-0

Bar code no: 9 789559 244288

NMR SPECTROSCOPY



Author: Thusitha Abeytunga

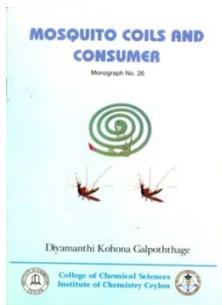
Monograph No: 25

The monograph deals in detail with the ^{13}C and proton NMR Spectroscopy and its use in identification and structural elucidation of many organic compounds. It also provides further information about some of the latest techniques such as the two dimensional spectroscopy and the Nuclear Overhauser effect.

ISBN: 955-9244-29-9

Bar Code No: 9 789559 244295

MOSQUITO COILS & CONSUMER



Author: Diyamanthi K Galpoththage

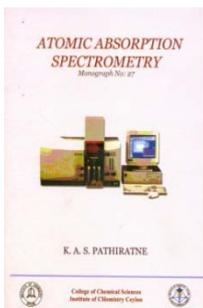
Monograph No: 26

The monograph discusses in detail the raw materials used in the manufacture of mosquito coils, the role of the raw materials, the active ingredients, and the manufacture process. Also it gives brief accounts on the bio-efficiency, quality control, the guidance for proper use of coils, and the potential hazards involved.

ISBN: 955-9244-31-8

Bar Code No:

ATOMIC ABSORPTION SPECTROMETRY



Author: K A S Pathirathne

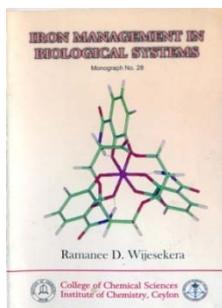
Monograph No: 27

The monograph gives the basic introduction to the theory of atomic absorption spectrometry, the necessary instrumentation for understanding the operational mechanism of the instrument and scope of its application. Includes basics on flame atomic spectrometry, electro-thermal atomic absorption spectrometry and hydride generation techniques.

ISBN 978-955-9244-34-9

Bar Code No: 9 789559 244349

IRON MANAGEMENT IN BIOLOGICAL SYSTEMS



Author: Ramanee D Wijesekera

Monograph No: 28

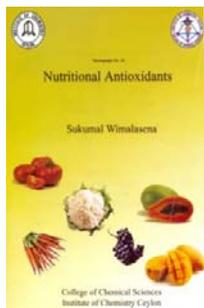
The monograph deals the management, use and relevance of iron in biological systems, with various aspects relation to the concentrations, stabilization, uptake and transport and the protective role of the serum protein-transferrins. Further the Iron storage

through ferritin, which serves as a reservoir for iron transported by transferrins into cells in biological systems are also discussed.

ISBN: 955-9244-35-6

Bar Code No: 9 789559 24435 6

NUTRITIONAL ANTIOXIDANTS



Author: Sukumal Wimalasena

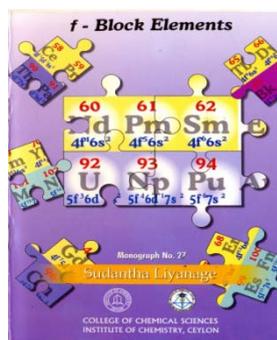
Monograph No: 29

The monograph introduces the nature and chemical structure of these reactive antioxidants, the nature and action of anti oxidants. Further it discusses the *In Vitro* determination of anti oxidant activity, also it provides an account on anti oxidants and diseases.

ISBN 978-955-9244-39-4

Bar Code No 9 789559 24439 4

f-BLOCK ELEMENTS



Author: Sudantha Liyanage

Monograph No: 30

The Lanthanides and Actinides are dealt with in detail in the monograph, the characteristic properties of these elements their electronic structures which characterizes the properties and behavior of these elements.

ISBN: 955-9244-28-0

Bar Code No: 9 789559 244288