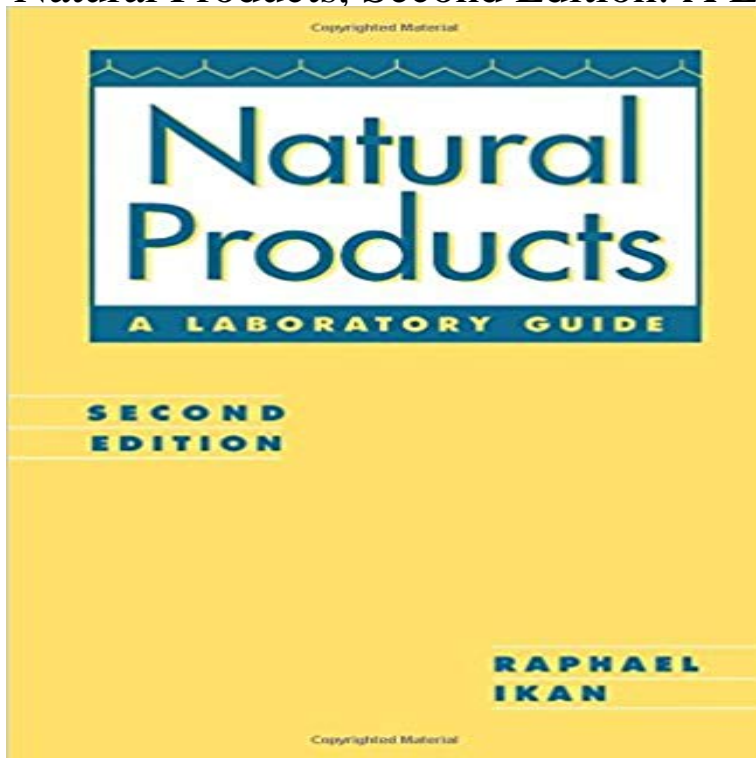


Natural Products, Second Edition: A Laboratory Guide



This new edition has been updated to include the following: The use of biomarkers (organic compounds in the geospherical record with carbon skeletons) reflecting the upsurge in geoporphyrin research primarily due to MS, yeast RNA nucleic acid studies: reversed-phase HPLC of amino acids; brewing industry applications (HPLC evaluation of carotenoids in orange juice and of debittered citrus); HPTLC of carbohydrates; synthesis of a sweetening agent from citrus peels, synthesis and degradation of alkaloids and of sterols, GC/MS uses with sterols, petroleum products, and aromatic constituents of wine and grape juice, flash chromatography of essential oils, optical purity of enantiomers affecting flavors, fragrances, and pheromones, as well as studies of lattice inclusion compounds ^1H - and ^{13}C -NMR, MS, IR and UV data are presented for most natural products.

Key Features* Biomarkers-organic compounds in the geospherical record with carbon skeletons-reflecting the upsurge in geoporphyrin research primarily due to MS* Yeast RNA nucleic acid studies* Reversed-phase HPLC of amino acids, citrus juice components, and HPLC in brewing industry applications* HPTLC of carbohydrates* ^1H - and ^{13}C -NMR: Sweetness evaluation and synthesis of a sweetening agent from citrus peels; seed oil sesamolin; alkaloids (strychnine, piperine, caffeine); and sterol analyses* GC/MS: sterols, petroleum studies, aromatic constituents of wine and grapejuice* Flash chromatography of essential oils* Optical purity of enantiomers affecting flavors, fragrances, and pheromones* Materials science studies of lattice inclusion compounds

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