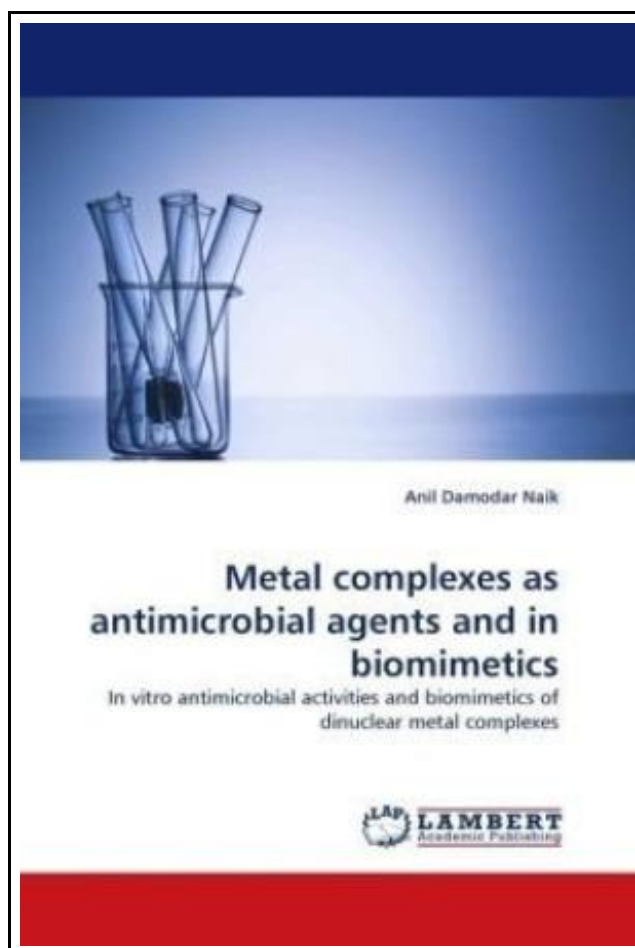


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LAP Lambert Acad. Publ. Jan 2010, 2010. Taschenbuch. Book Condition: Neu. 220x150x9 mm. Neuware - The metal-sulfur entities perform an unprecedented role in biological systems. Comprehension of their diversity in structure and function is indispensable in the realm of drug design and biomimetics. The present text embodies an interdisciplinary approach to the design, synthesis and applications of some metal complexes. It offers an overview of synthesis of binucleating Robson-type SNONS donor ligands, their transition metal complexes and a descriptive analytical, spectroscopic, magnetic, electrochemical characterizations. These novel molecules were capitalized for in vitro antimicrobial activities due to their topological resemblance to some known pharmacophores. Among the designed sulfur donor ligands, thiohydrazones and thiocarbohydrazones show exceptional fungistatic potentials. Also at appropriate places in the text the unique properties of these synthetic analogs were compared with that of a known metalloprotein. The meticulous organic synthesis, the bifunctionalities of molecules and a section on relatively less explored thiohydrazones should offer plethora of innovative ideas for researchers working in fine chemicals and bioinorganic chemistry. 152 pp. Englisch.



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