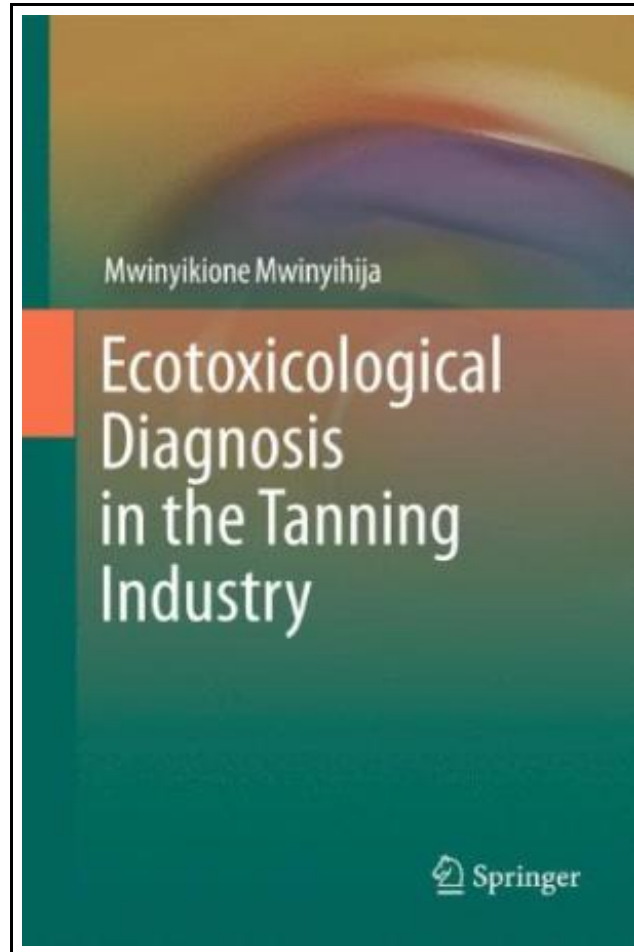


## Ecotoxicological Diagnosis in the Tanning Industry



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Springer. Hardcover. Book Condition: New. Hardcover. 106 pages. Dimensions: 9.3in. x 6.3in. x 0.6in. The primary focus in this book is to identify the ecotoxicological impacts related to the tanning industry on terrestrial and aquatic systems. The research incorporated both field related and laboratory based techniques in the experimental design to address the underlying environmental problems in the tanning sector. First, the study aimed to investigate the occupational hazards within a tannery caused by contaminated dust. An optical set-up involving microscopy and digital imaging techniques was initially used to determine dust particle numbers and size distributions. After determining the particulate numbers and sizes a Monte Carlo method was used to estimate the concentration of the dust in the air throughout the tannery during an 8 h working day. However knowing the particulate quantitative profile is always not sufficient to adjudge the toxic potency of the dust. In retrospect therefore the work related to the book inclined a notch higher to determine the toxic nature of the dust (in addition to particle size relation to toxicity). Therefore an ecotoxicological screening of the dust samples for the first time (using a solid and liquid assay involving the response of luminescence (lux)-based bacterial biosensor) was conducted and complemented by chemical analysis to identify possible causative toxic components. In the second phase of the study, the tannery effluent and associated environmental samples were dissected and manipulated through sparging, treatment with activated charcoal, filtration and pH adjustment. The approach used highlighted the complexity of toxic pollutants in the effluent from the tanning industry and the potential for remediation. Third, with the tannery effluent discharged into the adjacent river system (used for domestic and agricultural purposes) a partial environmental impact study (integrating toxicity assessment, measurement of microbial biomass activity and chemical analysis) was conducted with the main...

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