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## Quantitative Ecotoxicology, Second Edition

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By Michael C. Newman

CRC Press. Hardcover. Book Condition: New. Hardcover. 592 pages. Dimensions: 10.0in. x 7.0in. x 1.2in. Quantitative Ecotoxicology, Second Edition explores models and methods of quantitative ecotoxicology at progressively higher biological scales using worked examples and common software packages. It complements the authors previous books, Fundamentals of Ecotoxicology, Third Edition and Ecotoxicology: A Comprehensive Treatment. Encouraging a more rigorous inferential approach to research, the book examines the quantitative features of the science of ecotoxicology. The first chapters lay the foundation by introducing fundamental concepts and definitions. The author traces the historical perspective, rationale, and characteristics of scientific ecotoxicology as well as the general measurement process. He also considers methodologies for defining and controlling variance, which could otherwise exclude valid conclusions from ecotoxicological endeavors. The book then discusses ecotoxicological concepts at increasing levels of ecological organization and outlines quantitative methods used to measure toxicant accumulation and effects. Reflecting the importance of establishing type I and type II error rates, it highlights design issues, particularly sample size and power estimation. The final chapter summarizes the book with a brief discussion of ecotoxicology from a nonregulatory perspective. Extensively updated, this second edition has been expanded to include terrestrial as well as aquatic ecotoxicology. Requiring only...

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