

Intravenous infusion is a necessary mode of delivery for many pharmaceuticals currently on the market or undergoing clinical trials. The technique of prolonged intravenous delivery in conscious, free-moving animal models has broadened the opportunity to study and evaluate the safety and efficacy of these therapeutic products. For the first time, the collective sciences involved in the understanding of this mode of drug delivery are brought together in one publication. **Non-Clinical Vascular Infusion Technology, Volume I: The Science** covers the scientific principles behind the delivery systems, from both physical and physiological standpoints. The book addresses body fluid dynamics, describes the scientific processes necessary to understand the various aspects of the physico-chemical issues relating to vascular infusion delivery, and discusses vascular infusion dynamics. It also considers all the essential elements of the preparation of a formulation intended for vascular delivery as well as assessment of compatibility of the formulation with the dosing apparatus. This volume, along with **Volume II: The Techniques**, provides a foundation of knowledge on infusion technology and its importance for safe clinical use of substances via this route of delivery. **Features** Identifies and shares best practices for non-clinical vascular infusion **Presents** modern practices and procedures in line with up-to-date equipment development **Offers** recommendations for in-life assessments in order to monitor the success or problems with the vascular infusion delivery **Makes** comparisons with human data in many areas

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