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part of my lecturing work in the school of mathematics at the university of leeds involved teaching quantum mechanics and statistical mechanics to mathematics undergraduates and also mathematical methods to undergraduate students in the school of electronic and electrical engineering at the university the subject of this book has arisen as a result of research collaboration on device modelling with members of the school of electronic and electrical engineering i wanted to write a book which would be of practical help to those wishing to learn more about the mathematical and numerical methods involved in heterostructure device modelling i have introduced only a comparatively small number of topics and the reader may think that other important topics should have been included but of the topics which i have introduced i hope that i have given the reader some practical advice concerning the implementation of the methods which are discussed this practical advice includes demonstrating how the implementation of the methods may be tailored to the specific device being modelled and also includes some sections of computer code to

illustrate this implementation i have also included some background theory regarding the origins of the routines

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with the recent completion of the sequencing of the human genome it is widely anticipated that the number of potential new protein drugs and targets will escalate at an even greater rate than that observed in recent years however identification of a potential target is only part of the process in developing these new next generation protein based drugs that are increasingly being used to treat human disease once a potential protein drug has been identified the next rate limiting step on the road to development is the production of sufficient authentic material for testing characterization clinical trials and so on if a protein drug does actually make it through this lengthy and costly process methodology that allows the production of the protein on a scale large enough to meet demand must be implemented furthermore large scale production must not compromise the authenticity of the final product it is also necessary to have robust methods for the purification characterization viral inactivation and continued testing of the authenticity of the final protein product and to be able to formulate it in a manner that retains both its biological activity and lends itself to easy administration therapeutic proteins methods and protocols covers all aspects of protein drug production downstream of the discovery stage this volume contains contributions from leaders in the field of therapeutic protein expression purification characterization formulation and viral inactivation

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