

## **Engineered Nanopores for Bioanalytical Applications (Micro and Nano Technologies)**

Joshua B. Edel, Tim Albrecht



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Engineered Nanopores for Bioanalytical Applications is the first book to focus primarily on practical analytical applications of nanopore development. These nanoscale analytical techniques have exciting potential because they can be used in applications such as DNA sequencing, DNA fragment sizing, DNA/protein binding, and protein/protein binding.

This book provides a solid professional reference on nanopores for readers in academia, industry and engineering and biomedical fields. In addition, the book describes the instrumentation, fabrication, and experimental methods necessary to carry out nanopore-based experiments for developing new devices.

- Includes application case studies for detection, identification and analysis of biomolecules and related functional nanomaterials
- Introduces the techniques of manufacturing solid state materials with functional nanopores
- Explains the use of nanopores in DNA sequencing and the wider range of applications from environmental monitoring to forensics



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