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Electronic Health Record: A Systems Analysis of the Medications Domain

Alexander Scarlat MD

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Electronic Health Record: A Systems Analysis of the Medications Domain Alexander Scarlat MD Starting with an accessible primer, this book introduces the reader to the tools and methodology of Structured Systems Analysis as well as the nuances of the Medications domain. The first part of the book proceeds with a top-down decomposition along two main paths:

- ***Data in Motion*** - *Workflows*: Context and Data Flow Diagrams, Processes, Activities
- ***Data at Rest*** - *Databases*: Conceptual and Logical models, Entity-relationship-diagrams

Structured systems analysis methodology and tools are applied to:

- Electronic Prescription
- Computerized Physician Order Entry
- Drug dispensation
- Medication Administration
- Clinical Decision Support

The book completes a comprehensive view of the EHR/EMR with dedicated chapters on:

- User Interface considerations (Input)
- Reporting requirements (Output)
- Standards and Vocabularies for Meaningful Use (Interoperability)

Assuming the reader has no previous clinical and/or informatics knowledge, the author uses easily accessible language and clear explanations. With over 170 figures, 100 review questions and answers - the book is a great companion to Healthcare IT professionals as well as clinical informatics students.

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