

NEW REVIEW -- FOX / Workflow Optimization in Radiation Oncology: From Theory to Clinical Implementation. Medical Physics Publishing, Inc., 2024, \$130.00.

AUTHOR

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BIBLIOGRAPHIC DATA

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REVIEWER'S EXPERT OPINION

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Description

This text is AAPM Monograph no. 41 and serves as the proceedings of the 2024 AAPM Summer School in Hanover, NH. This book offers a framework to apply concepts of operations management and workflow efficiency commonly associated with operations systems to a clinical environment, specifically radiation oncology.

Purpose

The book compiles 16 chapters of theory and clinically applicable content as an updated comprehensive reference for clinical physicists. The focus is not just on the foundational principles of workflow efficiency and operations management but also provides real-life examples of these tools in radiation oncology-related contexts, such as resource allocation and custom workflows.

Audience

This book is best suited to help practicing radiation oncology physicists with real clinical needs to help inform their clinical workflows and improve efficiency but could also be greatly beneficial to late-stage trainees, such as residents or junior physicists, to provide foundational understating as they jump into their career. The book meets the needs of this audience well.

Authors are leaders in their fields, and include medical physicists, radiation oncologists, surgeons, business experts and industry professionals.

Features

The book contains two sections: Section I is titled "Theory" and contains chapters 1-6, whose topics range from operations management theory to project management to workflow efficiency and system modelling. Section II, titled "Clinical Implementation" contains chapters 7-16 and provides applications of the topics in Section I to radiation oncology problems, including custom workflows, resource allocation, QA, time management and communication. Figures are all printed in color, providing significant assistance in digesting the topics presented.

Assessment

The book accomplishes the goal set out in the preface to share learned experiences from experts in the overlap between the fields of radiation oncology and operations management with the greater community. Overall, I found this book to be an excellent and comprehensive collection of information that is not widely available in other books in the field of medical physics and would recommend it to anyone looking to enhance efficiency in their own clinic.

Weighted Numerical Score: 85 - 3 Stars

