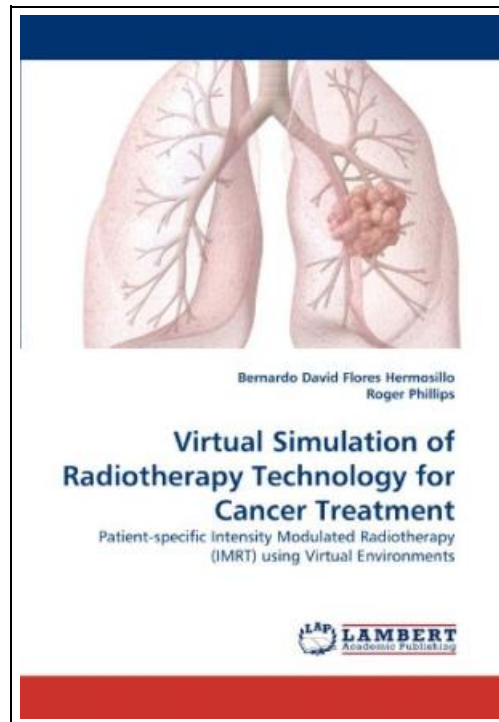


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VIRTUAL SIMULATION OF RADIOTHERAPY TECHNOLOGY FOR CANCER TREATMENT



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Patient-specific Intensity Modulated Radiotherapy (IMRT) using Virtual Environments | Cancer is one of the main causes of natural fatalities in the world. It is extensively treated using surgery, radiation, chemotherapy or a combination of those. Due to its success rate and non-invasiveness, perhaps the most promising of those is Radiotherapy (RT). Not yet the most widely used, the lack of training tools being possibly the main reason, followed by scarce public awareness of RT as opposed to scary chemotherapy. A Virtual Environment (VE) Simulation for Cancer Treatment intends to be a tool that will offer potential means for training radiotherapy personnel and increasing public awareness about RT as an option for cancer treatment. Designed as a hypothetical state-of-the-art Virtual RT unit containing a Linear Accelerator and Treatment Couch with an intuitive GUI for interaction. An editable random RT plan can be created including beams and settings for the Multi Leaf Collimator (MLC) and the RT Device (Clinac); the MLC can be edited at finger or jaw level. The effect of the MLC over the radiation beam is visualized. CT slices can be displayed at the isocentre, and other special effects were sketched. Core tools used were C++ & OpenGL. | Format: Paperback | Language/Sprache: english | 181 gr | 220x150x6 mm | 124 pp.



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