

Immersive Virtual and Augmented Reality in Healthcare Thermische Trennverfahren Rajendra Kumar Burkhard Lohrengel
Immersive Virtual and Augmented Reality in Healthcare Thermische Trennverfahren *Rajendra Kumar Burkhard Lohrengel*

the book acts as a guide taking the reader into the smart system domain and providing theoretical and practical knowledge along with case studies in smart healthcare the book uses a blend of interdisciplinary approaches such as iot blockchain augmented reality and virtual reality for the implementation of cost effective real time and user friendly solutions for healthcare problems immersive virtual and augmented reality in healthcare an iot and blockchain perspective presents the trends best practices techniques developments sensors materials and case studies that are using augmented and virtual reality environments with the state of the art latest technologies like iot blockchain and machine learning in the implementation of healthcare systems the book focuses on the design and implementation of smart healthcare systems with major challenges to further explore more robust and efficient healthcare solutions in terms of low cost faster algorithms more sensitive iot sensors faster data communication and real time solutions for treatment it discusses the use of virtual and augmented reality and how it can provide user friendly and interactive communication within healthcare systems illustrated through case studies the book conveys how different hospitals and healthcare equipment providers can adopt good practices found in the book to improve the performance productivity of their staff and system the content is rounded out by providing how iot blockchain and artificial intelligence can provide the framework for designing and or upgrading traditional healthcare systems by increasing security and data privacy a valuable resource for engineers working with systems the healthcare professionals involved in the design and development of healthcare devices and systems researcher scholars multidisciplinary scientists students and academics who are wishing to explore the use of virtual and augmented reality in new and existing healthcare systems

in dem buch werden die grundlagen der thermischen trennverfahren beschrieben um sie auslegen zu können in den grundlagen werden die unterschiede zwischen thermischen und mechanischen trennverfahren sowie rein thermischen und physikalisch chemischen trennverfahren erläutert das 2 kapitel beschreibt die in diesem buch behandelten thermischen trennverfahren anhand einfacher beispiele wird die verfahrensweise der unterschiedlichen thermischen trennverfahren anschaulich erläutert nach der vorstellung der verwendeten konzentrationsmaße werden die phasengleichgewichte diskutiert da das phasengleichgewicht unabhängig von den verwendeten stoffaustauschapparaten ist wird im nächsten kapitel auf die aufgaben betriebsweisen und bauformen von stoffaustauschapparaten eingegangen die ermittlung der bilanzlinie wird ausführlich diskutiert bevor die höhe des stoffaustauschapparats mit der theorie der theoretischen trennstufe sowie dem htu ntu modell berechnet wird das vorletzte kapitel befasst sich mit der fluiddynamik in stoffaustauschapparaten bestimmt werden der druckverlust sowie der flutpunkt um den erforderlichen durchmesser des stoffaustauschapparats zu bestimmen die möglichkeiten zur regeneration des beladenen absorbens adsorbens sowie extraktionsmittels runden das buch ab

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