



Pharmaceutical and Medical Applications of Near-Infrared Spectroscopy (Hardback)

By Emil W. Ciurczak, Benoît Igne, Gary E. Ritchie

Taylor Francis Inc, United States, 2014. Hardback. Condition: New. 2nd Revised edition. Language: English . Brand New Book. Since the completion of the first edition of this book, major developments have occurred in the pharmaceutical industry that have shaped the field of near-infrared (NIR) spectroscopy. A new initiative from the U.S. Food and Drug Administration (FDA) to modernize regulations of pharmaceutical manufacturing and drug quality has helped position NIR spectroscopy as an effective tool for pharmaceutical testing. Pharmaceutical and Medical Applications of Near-Infrared Spectroscopy: Second Edition reflects these developments and brings readers an up-to-date summary of how this technique is being applied to pharmaceutical manufacturing. Topics include: * The origins and principles of NIR spectroscopy, including early instrumentation, spectroscopic theory, and light-particle interaction * The physics of each instrument type, the strengths and weaknesses of each, and the manufacturers that produce them * The possible advantages of using NIR methods for monitoring or controlling blending, as well as practical concerns for mixing processes * NIR spectroscopy as applied to traditional granulation, drug layering, and film coating of beads or granules * Pharmaceutical assays, including qualitative analysis, quantitative analysis, determination of actives in tablets and capsules, and considerations for intact dosage...



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