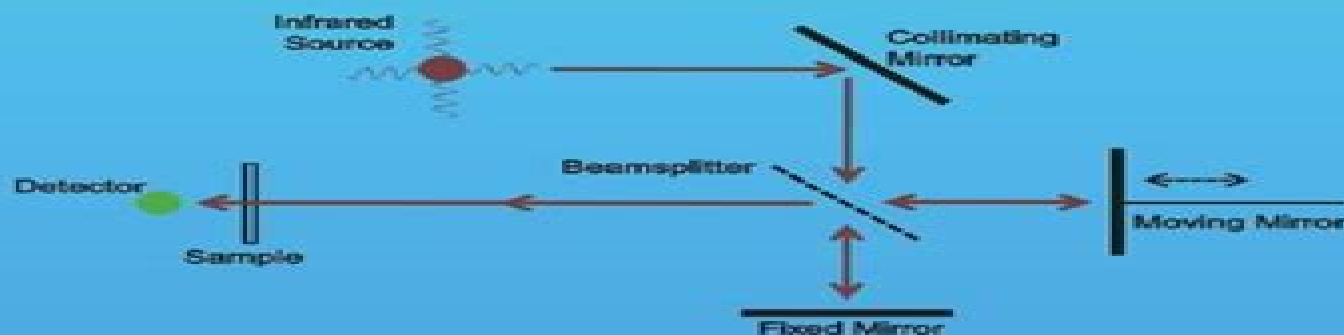


Second Edition

Fundamentals of FOURIER TRANSFORM INFRARED SPECTROSCOPY



Brian C. Smith



CRC Press
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Spectroscopy And The Fourier Transform

Robert Bell



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Mass Spectrometry A.G. Marshall, F.R. Verdun, 2016-02-25 Written by spectroscopists for spectroscopists here is a book which is not only a valuable handbook and reference work but also an ideal teaching text for Fourier transform methods as they are applied in spectroscopy It offers the first unified treatment of the three most popular types of FT spectroscopy with uniform notation and complete indexing of specialized terms All mathematics is self contained and requires only a knowledge of simple calculus The main emphasis is on pictures and physical analogs rather than detailed algebra Instructive problems presented at the end of each chapter offer extensions of the basic treatment Solutions are given or outlined for all problems The book offers a wealth of practical information to spectroscopists Non ideal effects are treated in detail noise source and detector limited non linear response limits to spectrometer performance based on finite detection period finite data size mis phasing etc Common puzzles and paradoxes are explained e g use of mathematically complex variables to represent physically real quantities interpretation of negative frequency signals on resonance vs off resonance response interpolation when it helps and when it doesn't ultimate accuracy of the data differences between linearly and circularly polarized radiation multiplex advantage or disadvantage etc Chapter 1 introduces the fundamental line shapes encountered in spectroscopy from a simple classical mass on a spring model The Fourier transform relationship between the time domain response to a sudden impulse and the steady state frequency domain response absorption and dispersion spectra to a continuous oscillation is established and illustrated Chapters 2 and 3 summarize the basic mathematics definitions formulas theorems and examples for continuous analog and discrete digital Fourier transforms and their practical implications Experimental aspects which are common to the signal Chapter 4 and noise Chapter 5 in all forms of Fourier transform spectrometry are followed by separate chapters for treatment of those features which are unique to FT MS FT optical FT NMR and other types of FT spectroscopy The list of references includes both historical and comprehensive reviews and monographs along with articles describing several key developments The appendices provide instant access to FT integrals and fast algorithms as well as a pictorial library of common Fourier transform function pairs The comprehensive index is

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