1. Record Nr. UNINA9910451428503321

Autore	Lewis James Bryant
Titolo	Frontier contact between choson Korea and Tokugawa Japan / / James B. Lewis
Pubbl/distr/stampa	London ; ; New York : , : RoutledgeCurzon, , 2003
ISBN	1-135-79599-1 1-280-23934-4 9786610239344 0-203-98732-2
Descrizione fisica	1 online resource (337 p.)
Disciplina	327.519052/09/03
Soggetti	Electronic books. Korea Relations Japan Japan Relations Korea Korea History 1637-1864 Japan History Tokugawa period, 1600-1868
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 298-316) and index.
Nota di contenuto	BOOK COVER; TITLE; COPYRIGHT; CONTENTS; FIGURES; MAPS; TABLES; ACKNOWLEDGMENTS; 1 INTRODUCTION; 2 TSUSHIMA'S IDENTITY AND THE POST-IMJIN WAERAN JAPAN HOUSE; 3 THE DEMOGRAPHIC SIGNIFICANCE OF THE JAPAN HOUSE; 4 THE ECONOMIC SIGNIFICANCE OF THE WAEGWAN; 5 THE POLITICAL SIGNIFICANCE OF THE WAEGWAN; 6 LEAKY ROOFS AND OTHER MATTERS; 7 PENETRATION DU CORPS SOCIALE; 8 CONCLUSION; APPENDIX A; APPENDIX B; GLOSSARY; NOTES; BIBLIOGRAPHY; INDEX
Sommario/riassunto	East Asia from 1400 to 1850 was a vibrant web of connections, and the southern coast of the Korean peninsula participated in a maritime world that stretched to Southeast Asia and beyond. Within this world were Japanese pirates, traders, and fishermen. They brought things to the Korean peninsula and they took things away. The economic and demographic structures of Kyongsang Province had deep and wide connections with these Japanese traders. Social and political clashes revolving around the Japan House in Pusan reveal Korean mentalities

	towards the Japanese connection. This study seeks to d

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Record Nr.	UNINA9910828666603321
Autore	Milosevic Milan <1955->
Titolo	Internal reflection and ATR spectroscopy / / Milan Milosevic
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, c2012
ISBN	9786613620934 9781280591105 1280591102 9781118309766 1118309766 9781118309742 111830974X 9781118309711 1118309715
Edizione	[1st ed.]
Descrizione fisica	1 online resource (263 p.)
Collana	Chemical analysis : a series of monographs on analytical chemistry and its applications ; ; v. 176
Disciplina	543/.59
Soggetti	Internal reflection spectroscopy Absorption spectra
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	INTERNAL REFLECTION AND ATR SPECTROSCOPY; CONTENTS; PREFACE; 1: Introduction to Spectroscopy; 1.1 HISTORY; 1.2 DEFINITION OF TRANSMITTANCE AND REFLECTANCE; 1.3 THE SPECTROSCOPIC EXPERIMENT AND THE SPECTROMETER; 1.4 PROPAGATION OF LIGHT THROUGH A MEDIUM; 1.5 TRANSMITTANCE AND ABSORBANCE; 1.6 S/N IN A SPECTROSCOPIC MEASUREMENT; 2: Harmonic Oscillator Model for Optical Constants; 2.1 HARMONIC OSCILLATOR MODEL FOR POLARIZABILITY; 2.2 CLAUSIUS-MOSSOTTI EQUATION; 2.3 REFRACTIVE INDEX; 2.4 ABSORPTION INDEX AND CONCENTRATION; 3: Propagation of Electromagnetic Energy

3.1 POYNTING VECTOR AND FLOW OF ELECTROMAGNETIC ENERGY3.2 LINEAR MOMENTUM OF LIGHT; 3.3 LIGHT ABSORPTION IN ABSORBING MEDIA; 3.4 LAMBERT LAW AND MOLECULAR CROSS SECTION; 4: Fresnel Equations; 4.1 ELECTROMAGNETIC FIELDS AT THE INTERFACE; 4.2 SNELL'S LAW; 4.3 BOUNDARY CONDITIONS AT THE INTERFACE; 4.4 FRESNEL FORMULAE; 4.5 REFLECTANCE AND TRANSMITANCE OF INTERFACE; 4.6 SNELL'S PAIRS; 4.7 NORMAL INCIDENCE; 4.8 BREWSTER'S ANGLE; 4.9 THE CASE OF THE 45° ANGLE OF INCIDENCE; 4.10 TOTAL INTERNAL REFLECTION; 5: Evanescent Wave; 5.1 EXPONENTIAL DECAY AND PENETRATION DEPTH
5.2 ENERGY FLOW AT A TOTALLY INTERNALLY REFLECTING INTERFACE 5.3 THE EVANESCENT WAVE IN ABSORBING MATERIALS; 6: Electric Fields at a Totally Internally Reflecting Interface; 6.1 EX, EY, AND EZ FOR S-POLARIZED INCIDENT LIGHT; 6.2 EX, EY, AND EZ FOR P-POLARIZED INCIDENT LIGHT; 7: Anatomy of ATR Absorption; 7.1 ATTENUATED TOTAL REFLECTION (ATR) REFLECTANCE FOR S- AND P-POLARIZED BEAM; 7.2 ABSORBANCE TRANSFORM OF ATR SPECTRA; 7.3 WEAK ABSORPTION APPROXIMATION; 7.4 SUPERCRITICAL REFLECTANCE AND ABSORPTION OF EVANESCENT WAVE; 7.5 THE LEAKY INTERFACE MODEL; 8: Effective Thickness
8.1 DEFINITION AND EXPRESSIONS FOR EFFECTIVE THICKNESS 8.2 EFFECTIVE THICKNESS AND PENETRATION DEPTH; 8.3 EFFECTIVE THICKNESS AND ATR SPECTROSCOPY; 8.4 EFFECTIVE THICKNESS FOR STRONG ABSORPTIONS; 9: Internal Reflectance near Critical Angle; 9.1 TRANSITION FROM SUBCRITICAL TO SUPERCRITICAL REFLECTION; 9.2 EFFECTIVE THICKNESS AND REFRACTIVE INDEX OF SAMPLE; 9.3 CRITICAL ANGLE AND REFRACTIVE INDEX OF SAMPLE; 10: Depth Profiling; 10.1 ENERGY ABSORPTION AT DIFFERENT DEPTHS; 10.2 THIN ABSORBING LAYER ON A NONABSORBING SUBSTRATE; 10.3 THIN NONABSORBING FILM ON AN ABSORBING SUBSTRATE
10.4 THIN NONABSORBING FILM ON A THIN ABSORBING FILM ON A NONABSORBING SUBSTRATE11: Multiple Interfaces; 11.1 REFLECTANCE AND TRANSMITTANCE OF A TWO-INTERFACE SYSTEM; 11.2 VERY THIN FILMS; 11.3 INTERFERENCE FRINGES; 11.4 NORMAL INCIDENCE; 11.5 INTERFERENCE FRINGES AND TRANSMISSION SPECTROSCOPY; 11.6 THIN FILMS AND ATR; 11.7 INTERNAL REFLECTION: SUBCRITICAL, SUPERCRITICAL, AND IN BETWEEN; 11.8 UNUSUAL FRINGES; 11.9 PENETRATION DEPTH REVISITED; 11.10 REFLECTANCE AND TRANSMITTANCE OF A MULTIPLE INTERFACE SYSTEM; 12: Metal Optics; 12.1 ELECTROMAGNETIC FIELDS IN METALS; 12.2 PLASMA
12.3 REFLECTANCE OF METAL SURFACES

Sommario/riassunto

Attenuated Total Reflection (ATR) Spectroscopy is now the most frequently used sampling technique for infrared spectroscopy. This book fully explains the theory and practice of this method.Offers introduction and history of ATR before discussing theoretical aspectsIncludes informative illustrations and theoretical calculationsDiscusses many advanced aspects of ATR, such as depth profiling or orientation studies, and particular features of reflectance