1. Record Nr. UNINA9910438316703321

Autore	Schuetzle Dennis <1942->
Titolo	The automotive industry and the global environment : the next 100 years / / Dennis Schuetzle, William Glaze
Pubbl/distr/stampa	Warrendale, Pa. (400 Commonwealth Dr., Wallendale PA USA) : , : Society of Automotive Engineers, , c1999 [Piscataqay, New Jersey] : , : IEEE Xplore, , [1999]
Edizione	[1st ed.]
Descrizione fisica	1 PDF (72 pages) : illustrations, maps, digital file
Collana	Society of Automotive Engineers. Electronic publications.
Altri autori (Persone)	GlazeWilliam
Disciplina	629.222/09/05
Soggetti	Automobiles - Technological innovations Automobiles - Environmental aspects Automobile industry and trade
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (p. 67-72).
Nota di contenuto	1. The Industrial Revolution and the Automobile -- 2. Evolution of Environmental Awareness and Protection in the 20th Century -- 3. Environmental and Energy Challenges of the 21st Century -- 4. Future Environmental Approaches and Methodologies -- 5. The "Global Revolution" and the Automobile -- 6. Conclusions.
Sommario/riassunto	This book presents an analysis on the potential effects of globalization on the automotive industry and the environment. Energy challenges, market economy growth, and population dynamics are considered. The authors also present future scenarios for transportation technologies to meet the ever growing global demand for transportation of goods and services while minimizing energy and environmental impacts and maximizing cost, value and widespread acceptance.

2.

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Autore	Thompson A. R (Anthony Richard), <1931->
Titolo	Interferometry and synthesis in radio astronomy / / A. Richard Thompson, James M. Moran, George W. Swenson, Jr
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ISBN	9786612010552 9781282010550 1282010557 9783527617845 3527617841 9783527617852 352761785X
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (720 p.)
Altri autori (Persone)	MoranJames M SwensonGeorge W <1922-> (George Warner)
Disciplina	522.682
Soggetti	Radio interferometers Radio astronomy
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	"A Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	INTERFEROMETRY AND SYINTHESIS IN RADIO ASTRONOMY; CONTENT'S; Preface to the Second Edition; Preface to the First Edition; 1 Introduction and Historical Review; 1.1 Applications of Radio Interferometry; 1.2 Basic Tenns and Definitions; Cosmic Signals; Source Positions and Nomenclature; Receptiorl of Cosmic Signals; 1.3 Development of Radio Interferometry; Evolution of Synthesis Techniques; Michelson Interferometer; Early Two-Element Radio Interferometers; Sea Interferometer; Phase-Switching Interferometer; Optical Identifications and Calibration Sources; Early Measurements of Angular Width Survey Interferometers and the Mills CrossCentimeter-Wavelength Solar Mapping; Measurements of Intensity Profiles; Spectral Line Interferometry; Earth-Rolation Synthesis Mapping; Development of Synthesis Arrays; Very-Long-Baseline Interferometry; VLBI Using Orbiting Antennas; 1.4 Quantum Effect; 2 Introductory Theory of

Interferometry and Synthesis Imaging; 2.1 Planar Analysis; 2.2 Effect of Bandwidth; 2.3 One-Dimensional Source Synthesis; Interferometer Response as a Convolution; Convolution Theorem and Spatial Frequency; Example of One-Dimensional Synthesis; 2.4 Two-Dimensional Synthesis
Projection-Slice Theorem3 Analysis of the Interferometer Response; 3.1 Fourier Transform Relationship between Intensity and Visibility; 3.2 Cross-Correlation and the Wiener-Khinchin Relation; 3.3 Basic Response of the Receiving System; Antennas; Filters; Correlator; Response to the Incident Radiation; Appendix 3.1 Mathematical Representation of Noise-Like Signals; Analytic Signal; Truncated Function; 4 Geometric Relationships and Polarimetry; 4.1 Antenna Spacing Coordinates and (u, v) Loci; 4.2 (u', v') Plane; 4.3 Fringe Frequency; 4.4 Visibility Frequencies; 4.5 Calibration of the Baseline 4.6 Antenna Mounts4.7 Beamwidth and Beam-Shape Effects; 4.8 Polarimetry; Parameters Defining Polarization; Antenna Polarization Ellipse; Stokes Visibilities; Instrumental Polarization; Matrix Formulation; Calibration of Instrumental Polarization; Appendix 4.1 Conversion Between Hour Angle-Declination and Azimuth-Elevation Coordinates; Appendix 4.2 Leakage Parameters in Terms of the Polarization Ellipse; Linear Polarization; Circular Polarization; 5 Antennas and Arrays; 5. I Antennas; 5.2 Sampling the Visibility Function; Sampling Theorem; Discrete Two-Dimensional Fourier Transform
5.3 Introductory Discussion of ArraysPhased Arrays and Correlator Arrays; Spatial Sensitivity and the Spatial Transfer Function; Meter-Wavelength Cross and T Arrays; 5.4 Spatial Transfer Function of a Tracking Array; Desirable Characteristics of the Spatial Transfer Function; Holes in the Spatial Frequency Coverage; 5.5 Linear Tracking Arrays; 5.6 Two-Dimensional Tracking Arrays; Open-Ended Configurations; Closed Configurations; VLBI Configurations; Orbiting VLBI Antennas; Planar Arrays; 5.7 Conclusions on Antenna Configurations; 5.8 Other Considerations; Sensitivity; Long Wavelengths Millimeter Wavelengths

Sommario/riassunto

Comprehensive, authoritative coverage of interferometric techniques for radio astronomyIn this Second Edition of Interferometry and Synthesis in Radio Astronomy, three leading figures in the development of large imaging arrays, including very-long-baseline interferometry (VLBI), describe and explain the technology that provides images of the universe with an angular resolution as fine as 1/20,000 of an arcsecond.This comprehensive volume begins with a historical review followed by detailed coverage of the theory of interferometry and synthesis imaging, analysis of interferomete