1. Record Nr. UNINA9910700337003321

Autore	Oleson Steven R (Steven Robert), <1964->
Titolo	COMPASS final report [[electronic resource]] : Lunar Communications Terminal (LCT) / / Steven R. Oleson and Melissa L. McGuire
Pubbl/distr/stampa	Cleveland, Ohio : , : National Aeronautics and Space Administration, Glenn Research Center, , [2010]
Descrizione fisica	1 online resource (iv, 33 pages) : color illustrations
Collana	NASA TM ; ; 2010-216236
Altri autori (Persone)	McGuireMelissa L
Soggetti	Lunar communication Lunar satellites Telecommunication Relay satellites Aerospace systems Lunar bases Extremely high frequencies Superhigh frequencies
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen (viewed on July 5, 2011). "December 2010." "CD-2007-11."

2. Record Nr. UNINA9910418317203321

Autore	Brezas Spyros
Titolo	Investigation on the dissemination of unit watt in airborne sound and applications / / Spyros Brezas
Pubbl/distr/stampa	Berlin/Germany, : Logos Verlag Berlin, 2019 Berlin, Germany : , : Logos Verlag Berlin GmbH, , [2019] ©2019
ISBN	9783832549718
Descrizione fisica	1 online resource (iv, 197 pages) : illustrations, charts; digital file(s)
Collana	Aachener Beitrage zur Akustik
Disciplina	620.2
Soggetti	Engineering - Acoustics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Author's doctoral thesis, Rheinisch-Westfalische Technische Hochschule Aachen.
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	Sound power describes the emission of sound from sound sources. Despite today's state-of-the art measurement techniques, the current sound power determination methods are restricted due to various limitations. To overcome these limitations, a new sound power determination method is proposed, aiming at the establishment of traceability in airborne sound. This will enable the characterization of a sound source by its free field sound power. The dissertation describes a study on the dissemination process, which will allow the sound power of a device under test located at a real surrounding environment, to be referred to its free field sound power. Apart from the sound power, the corresponding uncertainty may be estimated in a transparent way, where each uncertainty component is provided. The basic tool for the dissemination process is the substitution method using aerodynamic reference sound sources, applied to both sound pressure and sound intensity measurements. Initially, a theoretical investigation deals with the factors that influence the substitution method. Experimental results are then presented based on measurements using a specially designed scanning apparatus. The transition from calibration to in situ conditions and the required correction, due to changes in environmental and operational conditions, is then discussed. In the last

section, the sound power level of devices under test is determined along with its related uncertainty, which is further compared to the up-to-date uncertainty values.