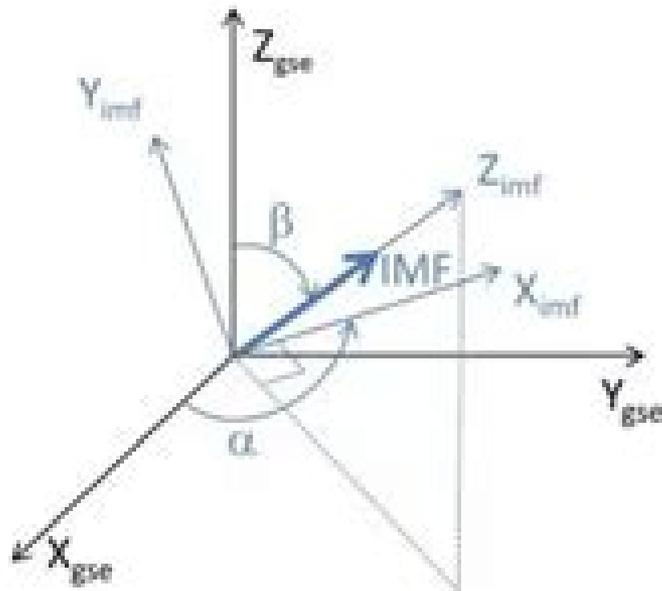


Conversion of coordinate



IMF coordinate

X_{imf} is in X_{gse} - Y_{gse} plane

Y_{imf} is pointing north ward, and in Z_{imf} - Z_{gse} plane

α = GSE longitude of IMF + 90°

β = GSE colatitude of IMF

IMF to GSE : rot $+\beta$ on X_{imf} and rot $+\alpha$ on Z_{gse} and

$$\begin{pmatrix} x_{gse} \\ y_{gse} \\ z_{gse} \end{pmatrix} = \begin{pmatrix} \cos \alpha & -\sin \alpha & 0 \\ \sin \alpha & \cos \alpha & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} 1 & 0 & 0 \\ 0 & \cos \beta & -\sin \beta \\ 0 & \sin \beta & \cos \beta \end{pmatrix} \begin{pmatrix} x_{imf} \\ y_{imf} \\ z_{imf} \end{pmatrix}$$

GSE to IMF : rot $-\alpha$ on Z_{gse} and rot $-\beta$ on X_{imf}

$$\begin{pmatrix} x_{imf} \\ y_{imf} \\ z_{imf} \end{pmatrix} = \begin{pmatrix} 1 & 0 & 0 \\ 0 & \cos \beta & \sin \beta \\ 0 & -\sin \beta & \cos \beta \end{pmatrix} \begin{pmatrix} \cos \alpha & \sin \alpha & 0 \\ -\sin \alpha & \cos \alpha & 0 \\ 0 & 0 & 1 \end{pmatrix} \begin{pmatrix} x_{gse} \\ y_{gse} \\ z_{gse} \end{pmatrix}$$

Conversion To Local Coordinate System Novatel

Piervincenzo Rizzo, Alberto Milazzo



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European Workshop on Structural Health Monitoring Piervincenzo Rizzo,Alberto Milazzo,2022-06-18 This volume gathers the latest advances innovations and applications in the field of structural health monitoring SHM and more broadly in the fields of smart materials and intelligent systems as presented by leading international researchers and engineers at the 10th European Workshop on Structural Health Monitoring EWSHM held in Palermo Italy on July 4 7 2022 The volume covers highly diverse topics including signal processing smart sensors autonomous systems remote sensing and support UAV platforms for SHM Internet of Things Industry 4 0 and SHM for civil structures and infrastructures The contributions which are published after a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists *Map India 2000* ,2000

Automotive Collision Avoidance System Field Operational Test: Phase I Interim Report ,2002 *Geodirectory* Gayle K. Rodcay,1997-10 *Proceedings of ION GPS-94* Institute of Navigation. Satellite Division. International Technical Meeting,1994 *Unmanned Systems Technology* ,2006 *IEEE International Geoscience and Remote Sensing Symposium Proceedings* ,2003 **GIS World Sourcebook** ,1996 *Geo Info Systems* ,1998 *Position, Navigation, and Timing Technologies in the 21st Century* Y. Jade Morton, Frank van Diggelen, James J. Spilker, Jr., Bradford W. Parkinson, Sherman Lo, Grace Gao, 2020-12-12 Covers the latest developments in PNT technologies including integrated satellite navigation sensor systems and civil applications Featuring sixty four chapters that are divided into six parts this two volume work provides comprehensive coverage of the state of the art in satellite based position navigation and timing PNT technologies and civilian applications It also examines alternative navigation technologies based on other signals of opportunity and sensors and offers a comprehensive treatment on integrated PNT systems for consumer and commercial applications Volume 1 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications contains three parts and focuses on the satellite navigation systems technologies and engineering and scientific applications It starts with a historical perspective of GPS development and other related PNT development Current global and regional navigation satellite systems GNSS and RNSS their inter operability signal quality monitoring satellite orbit and time synchronization and ground and satellite based augmentation systems are examined Recent progresses in satellite navigation receiver technologies and challenges for operations in multipath rich urban environment in handling spoofing and interference and in ensuring PNT integrity are addressed A section on satellite navigation for engineering and scientific applications finishes off the volume Volume 2 of Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications consists of three parts and addresses PNT using alternative signals and sensors and integrated PNT technologies for consumer and commercial applications It looks at PNT using various radio signals of opportunity atomic clock optical laser magnetic field celestial MEMS and inertial sensors as

well as the concept of navigation from Low Earth Orbiting LEO satellites GNSS INS integration neuroscience of navigation and animal navigation are also covered The volume finishes off with a collection of work on contemporary PNT applications such as survey and mobile mapping precision agriculture wearable systems automated driving train control commercial unmanned aircraft systems aviation and navigation in the unique Arctic environment In addition this text Serves as a complete reference and handbook for professionals and students interested in the broad range of PNT subjects Includes chapters that focus on the latest developments in GNSS and other navigation sensors techniques and applications Illustrates interconnecting relationships between various types of technologies in order to assure more protected tough and accurate PNT Position Navigation and Timing Technologies in the 21st Century Integrated Satellite Navigation Sensor Systems and Civil Applications will appeal to all industry professionals researchers and academics involved with the science engineering and applications of position navigation and timing technologies pnt21book.com

Observation of the Earth System from Space Jakob Flury,Reiner Rummel,Christoph Reigber,Markus Rothacher,Gerd Boedecker,Ulrich Schreiber,2006-02-28 In the recent years space based observation methods have led to a substantially improved understanding of Earth system Geodesy and geophysics are contributing to this development by measuring the temporal and spatial variations of the Earth's shape gravity field and magnetic field as well as at sphere density In the frame of the German R D programme GEOTECHNOLOGIEN research projects have been launched in 2002 related to the satellite missions CHAMP GRACE and ESA's planned mission GOCE to complementary terrestrial and airborne sensor systems and to consistent and stable high precision global reference systems for satellite and other techniques In the initial 3 year phase of the research programme 2002-2004 new gravity field models have been computed from CHAMP and GRACE data which outperform previous models in accuracy by up to two orders of magnitude for the long and medium wavelengths A special highlight is the termination of seasonal gravity variations caused by changes in continental water masses For GOCE to be launched in 2006 new gravity field analysis methods are under development and integrated into the ESA processing system 200 000 GPS radio occultation profiles observed by CHAMP have been processed on an operational basis They represent new and excellent information on atmospheric refractivity temperature and water vapor These new developments require geodetic space techniques such as VLBI SLR LLR GPS to be combined and synchronized as if being one global instrument

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