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Euromap 63 Data Exchange Interface

EUROMAP 63 Data Exchange Interface Version 1.05a July, 2000 (59 pages) The recommendation under this cover has been prepared by the Technical Commission of EUROMAP and SPI (The Society of the Plastics Industry, USA-Washington, DC) In this document, the American spelling is used. In the U.S. an identical text of EUROMAP 63 is published as an SPI document.

EUROMAP 63 Data Exchange Interface

Euromap 63. The Euromap 63 standard is the predecessor to Euromap 77 and defines the data exchange with injection moulding machines via files. With its Euromap 63 plug-in, the OPC Router implements the file handling to the injection molding machine defined in the standard. The Euromap plug-in writes the so-called request files and accepts response files.

EUROMAP 63: Industry 4.0 for injection moulding technology EUROMAP 63 (PDF, 224.88 KB) 2000. Data exchange interface (General + Injection moulding machines) EUROMAP 64 (PDF,

249.17 KB) 2008. Injection Moulding Machines - Warning Signs. EUROMAP 65 (PDF, 41.26 KB) 2006. Injection Moulding Machines - User Identification. EUROMAP 67 (PDF, 232.76 KB)

Technical Recommendations | EUROMAP - European Plastics ... EUROMAP 63 Data Exchange Interface Version 1.05a July, 2000 (59 pages) The recommendation under this cover has been prepared by the Technical Commission of EUROMAP and SPI (The Society of the Read : EUROMAP 63 Data Exchange Interface pdf book online

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The current recommendation EUROMAP 63 defines a data exchange interface between Injection Moulding Machines and central computers / Management Execution Systems (MES). As the current recommendation EUROMAP 63 is based on the transfer of text files which is not state of the art, it is intended to create a new interface as EUROMAP 77 on the basis of OPC/UA.

Plastics and Rubber Machinery - OPC Foundation

EUROMAP 77 - OPC UA-based data exchange for injection moulding machines 14 Oct 2016. EUROMAP 77 is the new Industry 4.0-ready industry standard for the exchange of data between injection moulding machines and central computers or manufacturing execution systems (MES).

EUROMAP 77 - OPC UA-based data exchange for injection ... EUROMAP 77 describes the interface between injection moulding machines (IMM) and manufacturing execution systems (MES) for data exchange. The first version has been released on 4 May 2018. MES are used for collecting the information

generated by IMM at a central point for easier quality assurance and job and dataset management.

EUROMAP 77 - Data exchange between injection moulding ...
The new Euromap 77 interface will enable even faster and more efficient data exchange between injection moulding machines and host computers, paving the way for the widespread use of Industry 4.0 in the plastics processing industry. Another advantage over Euromap 63, which is to be replaced, is greater flexibility.

EUROMAP 77 - Faster and more flexible data exchange ...
Compared to its predecessor

Euromap 63, Euromap 77 offers extended functionality to enable state of the art digital communication, thus paving the way for Industry 4.0. With Euromap 77, machines from different manufacturers can be easily connected in one network for monitoring and production data acquisition, management of jobs and transferring whole datasets for machine settings.

Data exchange between injection moulding machines and MES Data Exchange Interface TheEUROMAP63DriverProtocolspecifiesafile-based(ASCII)communicationinterfacethatisorganized basedontheOSI7LayerModel.Thisdataexchangeinterfacereliesontheimplementationof

allsevenlay-ers. RefertotheEUROMAP63DataExchangeInterfacedocumentforthespecificdefinitionsofthesession,present-

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EUROMAP 63 Driver - Kepware
Basic Plus offers additional production-planning capabilities, while the Advanced version provides continuous quality control via the automatic analysis of process parameters. In addition to working with KraussMaffei injection molding machines, MaXecution can be connected to competitors' machines via the Euromap 63 data exchange interface.

KraussMaffei's MES software

monitors injection molding ... EUROMAP 77 describes the interface between injection moulding machines (IMM) and manufacturing execution systems (MES) for data exchange. MES are used for collecting the information generated by IMM at a central point for easier quality assurance and job and dataset management.

EUROMAP 77 – OPC UA interfaces for plastics and rubber ...

EUROMAP 63 is a basic communication protocol for exchanging information between a central computer and an injection molding machine (injection molding machine) using flies stored on a shared network location. Here we

use a MICA as the central computer to communicate with the injection molding machine. 4.2The Communication Principle

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HARTING EUROMAP 63 Gateway for MICA User Manual

1. The EUROMAP 63 Standard The EUROMAP 63 standard describes a file-based data exchange interface that allows applications (such as KEPServerEX) to access information from EUROMAP 63-enabled machines. In some cases, the machine itself can communicate using the EUROMAP 63 language. In other cases, the machine vendor provides an application that

Understanding EUROMAP 63
Driver Device Diagnostics Output
The fourth workshop on amendment of the Euromap 63 recommendations, the standardized interface for data exchange with injection molding machines, was held in early March. Some 15 representatives of leading injection molding machine manufacturers from the German-speaking region got together at KraussMaffei in Munich to discuss current topics and to set targets for the future.

Decisive potential in business is a question of process capability, rather than production capability. Process capability in business

requires real-time systems for optimization. Business-IT needs to be developed from telecommunications and ERP to real-time services, which are not offered by the prevailing ERP systems. This book shows how modern information technology Manufacturing Execution Systems (MES) becomes the prerequisite for process capability of the company on the basis of many practical examples. It describes the requirements for optimized MES. It gives an overview of the efficiency potentials and different applications of MES.

This book gathers the most recent developments in fuzzy & intelligence systems and real complex systems presented at

INFUS 2020, held in Istanbul on July 21 – 23, 2020. The INFUS conferences are a well-established international research forum to advance the foundations and applications of intelligent and fuzzy systems, computational intelligence, and soft computing, highlighting studies on fuzzy & intelligence systems and real complex systems at universities and international research institutions. Covering a range of topics, including the theory and applications of fuzzy set extensions such as intuitionistic fuzzy sets, hesitant fuzzy sets, spherical fuzzy sets, and fuzzy decision-making; machine learning; risk assessment; heuristics; and clustering, the book is a valuable resource for academics, M.Sc. and

Ph.D. students, as well as managers and engineers in industry and the service sectors.

Manufacturing Execution System (MES) is the central part and data hub in a manufacturing environment, connecting ERP and shop floor through horizontal and vertical integration. As a perfect example of modern and Industry 4.0 orientated MES, HYDRA is described, basically modular structured with plenty of standard functions, covering all production areas and departments in a factory, such as machine connectivity, production management, production logistics, quality management, resource management, energy management, and HR. Collecting vast real-time

production data is just the very first step, where many MES systems linger about. More important is to analyze and utilize mass production data, turning Big Data into Smart Data. MES Hydra offers various analysis tools and reports for the sake of efficiency and transparency.

This book gathers the proceedings of the International Symposium on Plastics Technology, which was held on March 10, 2020 in Aachen, Germany, and was organised by the Institute for Plastics Processing (IKV) in Industry and Craft at RWTH Aachen University. Peer-reviewed by an international scientific committee, the conference proceedings comprise the papers presented by the

international speakers. Topics covered include - circular economy- extrusion- lightweight technologies- simulation and digitisation - injection moulding- hybrid materials and additive manufacturing. In these fields, key themes for plastics technologies have been identified that will shape the face of research and industry for the next decade. In their contributions, the authors present the latest scientific findings, and discuss topical issues in plastics technologies. The symposium offered an inspiring forum for the exchange on research and innovation, for discussing urgent questions and providing impulses for the future of plastics technology.

"This book is offers an overview of the practices and the technologies that are shaping the knowledge production of the future"--Provided by publisher.

In order to make the subject manageable the term 'injection moulding' has been restricted in its use so that only those processes which rely on thermal softening of the polymeric materials have been described and discussed in this book. It is intended to discuss the subject of reaction injection moulding in a separate book. However, even with this omission, the subject is still a very large one as nowadays many sorts or types of polymers are injection moulded. For example, it is estimated that one-third of all plastics materials

are injection moulded-the range of products produced is enormous and increases daily. Because most moulding materials are based on plastics, in particular thermoplastics, the materials guides which form a large part of this book concentrate on the moulding of thermoplastics materials. Such guides should only be treated as general guidelines as each of the materials is normally available in a wide range of grades. These may differ in polymer molecular weight, molecular weight distribution, the additives used and their concentration, the physical form of the moulding compound, etc. A wide range of processing behaviours and end-use properties is therefore possible from any of the materials listed.

This versatility is typified by the rubbery polymers which are compounded into an incredibly wide range of compounds. Because of this versatility only a very general guideline has been given for such materials.

This book presents an in-depth description of the Arrowhead Framework and how it fosters interoperability between IoT devices at service level, specifically addressing application. The Arrowhead Framework utilizes SOA technology and the concepts of local clouds to provide required automation capabilities such as: real time control, security, scalability, and engineering simplicity. Arrowhead Framework supports the

realization of collaborative automation; it is the only IoT Framework that addresses global interoperability across multiplet SOA technologies. With these features, the Arrowhead Framework enables the design, engineering, and operation of large automation systems for a wide range of applications utilizing IoT and CPS technologies. The book provides application examples from a wide number of industrial fields e.g. airline maintenance, mining maintenance, smart production, electro-mobility, automative test, smart cities—all in response to EU societal challenges. Features Covers the design and implementation of IoT based automation systems. Industrial usage of Internet of

Things and Cyber Physical Systems made feasible through Arrowhead Framework. Functions as a design cookbook for building automation systems using IoT/CPS and Arrowhead Framework. Tools, templates, code etc. described in the book will be accessible through open sources project Arrowhead Framework Wiki at forge.soa4d.org/ Written by the leading experts in the European Union and around the globe.

Land use and land cover (LULC) as well as its changes (LUCC) are an interplay between bio-geophysical characteristics of the landscape and climate as well as the complex human interaction including its different patterns of utilization superimposed on the

natural vegetation. LULC is a core information layer for a variety of scientific and administrative tasks(e.g. hydrological modelling, climate models, land use planning).In particular in the context of climate change with its impacts on socio-economic, socio-ecologic systems as well as ecosystem services precise information on LULC and LUCC are mandatory baseline datasets required over large areas. Remote sensing can provide such information on different levels of detail and in a homogeneous and reliable way. Hence, LULC mapping can be regarded as a prototype for integrated approaches based on spaceborne and airborne remote sensing techniques combined with field

observations. The book provides for the first time a comprehensive view of various LULC activities focusing on European initiatives, such as the LUCAS surveys, the CORINE land covers, the ESA/EU GMES program and its resulting Fast-Track- and Downstream Services, the EU JRC Global Land Cover, the ESA GlobCover project as well as the ESA initiative on Essential Climate Variables. All have and are producing highly appreciated land cover products. The book will cover the operational approaches, but also review current state-of-the-art scientific methodologies and recommendations for this field. It opens the view with best-practice examples that lead to a view that exceeds pure mapping, but to

investigate into drivers and causes as well as future projections.

This comprehensive handbook provides a simplified, practical and innovative approach to understanding the design and manufacture of plastic products. It will expand the reader's understanding of plastics technology by defining and focusing on past, current, and future technical trends. The content is presented so that both technical and nontechnical readers can understand the interrelationships of materials to processes. Different plastic products are examined and their related critical factors are shown, from meeting performance requirements in different

environments, to reducing costs and targeting for zero defects. Examples used include small to large, and simple to complex shapes. Information is included on static properties (tensile, flexural), dynamic properties (creep, fatigue, impact) and physical and chemical properties. Extensive reference sources and useful data and physical and chemical constants are also provided. Volume 2 offers detailed coverage of most major plastics processing techniques, including injection molding, extrusion, blow molding, and thermoforming.

Provides informaton on 338 national, regional and international organizations which participate in standards-related activities:

standardization, certification, laboratory accreditation, or other standards-related activities. Describes their work in these areas, the scope of each organization, national affiliations of members, U.S. participants, restrictions on membership, as well as availability of any standards in English. A growing number of European organizations have become active in standards efforts.