



## ESI's ProCAST: 25 Years of Excellence in Casting Simulation

ProCAST was first released in 1990, and it just keeps getting better

This year, [ESI's ProCAST](#) proudly celebrates 25 years of industry-leading casting simulation software. Casting process modeling has come a long way since the early 1980s when the casting designer using simulation was limited to deciphering a full casting through primitive two-dimensional sections. In the early days, the focus was on the simple quest of identifying hot spots in the casting. As Computer-Aided Design (CAD) and numerical simulation software packages evolved, the foundry engineer became able to make quick changes to the feeding design, fixing potential defects with relative ease.



[Image](#); Historical ProCAST simulation images from ESI archives.

Today, [ESI's ProCAST](#) allows for a full coupling of thermal-flow-stress analyses and evaluations of all casting processes, for all castable alloys, including defect detection, residual stresses, part distortion, microstructure and mechanical properties prediction. The solution also addresses other casting-relevant manufacturing processes such as core blowing and heat treatment.

[ProCAST](#) is considered the most powerful, comprehensive and accurate casting simulation solution in the industry today. Not only are its first users, who embraced ProCAST at its inception, still valued customers today – like General Electric, PCC Airfoils, Rolls Royce, Amcast Automotive (now General Aluminum) and Howmet (now a division of Alcoa) – nearly 1000 more have adopted ProCAST since then!

In 1990, one of the first customers to adopt [ProCAST](#) was the USA-based PCC Airfoils LLC, a producer of high-precision investment casting parts for turbine engines primarily for aircraft and power generation. Kathy Bell, Simulation Engineering Manager, was an early adopter of casting simulation and selected ProCAST as PCC's primary casting analysis tool. 25 years later,

# Esi Procast 2015

**Hussin A.Rothana**



## Esi Procast 2015 :

**Numerical Modelling and Simulation of Metal Processing** Christof Sommitsch, 2021-08-16 This book deals with metal processing and its numerical modelling and simulation. In total 21 papers from different distinguished authors have been compiled in this area. Various processes are addressed including solidification, TIG welding, additive manufacturing, hot and cold rolling, deep drawing, pipe deformation and galvanizing. Material models are developed at different length scales from atomistic simulation to finite element analysis in order to describe the evolution and behavior of materials during thermal and thermomechanical treatment. Materials under consideration are carbon Q ductile iron and aluminum, nickel based and titanium alloys. The developed models and simulations shall help to predict structure evolution, damage and service behavior of advanced materials. *eScience on Distributed Computing Infrastructure* Marian Bubak, Jacek

Kitowski, Kazimierz Wiatr, 2014-08-25 To help researchers from different areas of science understand and unlock the potential of the Polish Grid Infrastructure and to define their requirements and expectations, the following 13 pilot communities have been organized and involved in the PLGrid Plus project: Acoustics, AstroGrid, PL Bioinformatics, Ecology, Energy Sector, Health Sciences, HEPGrid, Life Science, Materials, Metallurgy, Nanotechnologies, Quantum Chemistry and Molecular Physics, and SynchroGrid. The book describes the experience and scientific results achieved by the project partners. Chapters 1 to 8 provide a general overview of research and development activities in the framework of the project with emphasis on services for different scientific areas and an update on the status of the PL Grid infrastructure describing new developments in security and middleware. Chapters 9 to 13 discuss new environments and services which may be applied by all scientific communities. Chapters 14 to 36 present how the PLGrid Plus environments, tools and services are used in advanced domain specific computer simulations; these chapters present computational models, new algorithms and ways in which they are implemented. The book also provides a glossary of terms and concepts. This book may serve as a resource for researchers, developers and system administrators working on efficient exploitation of available e infrastructures, promoting collaboration and exchange of ideas in the process of constructing a common European e infrastructure. *Aluminium*, 2003

*Intermetallics 2016* Ana Sofia Ramos, 2018-07-02 This book is a printed edition of the Special Issue *Intermetallics 2016* that was published in *Metals*. *Shape Casting* Murat Tiryakioğlu, John Campbell, Paul N. Crepeau, 2011-04-12 In a career spanning almost six decades, Prof John T Berry has made significant contributions towards building our understanding of solidification and process structure property relationships in shaped castings. Celebrating his contributions, the Fourth International Shape Casting Symposium, which takes place at the 2011 TMS Annual Meeting, filling and feeding systems, process modeling for shaped castings, structure property relationships, performance of shaped castings and machinability of castings. *FENet Meeting Proceedings* FENet (Project). Meeting, 2005 **Continuous Casting** H. R. Müller, 2006-05-12 The Continuous Casting 2000 symposium maintains the tradition established in 1976 of holding regular events. This

millennium event however is the first international meeting of the series The aim is to highlight the importance of continuous casting of aluminum copper and magnesium to the international fabricating industry focusing on technological advances in all the sectors that are important for the manufacture of high quality continuous cast products **Characterization of**

**Minerals, Metals, and Materials 2021** Jian Li,Mingming Zhang,Bowen Li,Sergio Neves Monteiro,Shadia Ikhmayies,Yunus Eren Kalay, Jiann-Yang Hwang,Juan P. Escobedo-Diaz,John S. Carpenter,Andrew D. Brown,Rajiv Soman,Alex

Moser,2021-02-16 The collection focuses on the advancements of characterization of minerals metals and materials and the applications of characterization results on the processing of these materials Advanced characterization methods techniques and new instruments are emphasized Areas of interest include but are not limited to Novel methods and techniques for characterizing materials across a spectrum of systems and processes Characterization of mechanical thermal electrical optical dielectric magnetic physical and other properties of materials Characterization of structural morphological and topographical natures of materials at micro and nano scales Characterization of extraction and processing including process development and analysis Advances in instrument developments for microstructure analysis and performance evaluation of materials such as computer tomography CT X ray and neutron diffraction electron microscopy SEM FIB TEM and spectroscopy EDS WDS EBSD techniques 2D and 3D modelling for materials characterization The book explores scientific processes to characterize materials using modern technologies and focuses on the interrelationships and interdependence among processing structure properties and performance of materials *Turbine Blade Investment Casting Die Technology*

Dinghua Zhang,Yunyong Cheng,Ruisong Jiang,Neng Wan,2017-08-10 Focusing on the theory and techniques of digital design and manufacturing for turbine blade investment casting this book systematically summarizes the advances in applications in this field It describes advanced digital design theory and methods and provides practical technical references for investment casting die design and manufacturing The theories methods and cases presented here are largely derived from the author s practical engineering experience and the research he and his team have carried out since the 1990s It includes academic papers technical reports and patent literature and provides a valuable guide to engineers involved in the die design process Given its comprehensive coverage the book makes a significant contribution to investment casting die design and aero engine blade manufacturing while at the same time promoting the development of aero engine manufacturing technologies

Contribution of Metallography to Production Problem Solutions Josef Kasl,2022-08-25 Selected peer reviewed extended articles based on abstracts presented at the 15th conference Contribution of Metallography to Production Problem Solutions Aggregated Book **EPD Congress 2013** Michael L. Free,Andreas H. Siegmund,2013-01-24 This state of the art reference

presents papers from one of the largest annual gatherings of extraction specialists from around world the 2013 Annual Meeting of The Minerals Metals production refining and recycling of rare earth metals and solar cell silicon Essential reading for scientists engineers and metallurgists in the global extractive and process metallurgy industries Български

технічний каталог , 2016 2017      **Structural and Functional Materials** Josef Kasl,Yurii Otrosh,Nina Rashkevich,Andrii Kovalov,Nikolay Vatin,Pavel Akimov,Anif Jamaluddin,2022-07-15 Special topic volume with invited peer reviewed papers only

Drying and Energy Technologies J.M.P.Q. Delgado,A. Gilson Barbosa de Lima,2015-07-11 This book provides a comprehensive overview of essential topics related to conventional and advanced drying and energy technologies especially motivated by increased industry and academic interest The main topics discussed are theory and applications of drying emerging topics in drying technology innovations and trends in drying thermo hydro chemical mechanical behaviors of porous materials in drying and drying equipment and energy Since the topics covered are inter and multi disciplinary the book offers an excellent source of information for engineers energy specialists scientists researchers graduate students and leaders of industrial companies This book is divided into several chapters focusing on the engineering science and technology applied in essential industrial processes used for raw materials and products      **Casting Design and Performance** ,2009

*CADmaster №6*, 2013 ,      *Fundamentals of Modeling for Metals Processing* David U. Furrer,ASM International. Handbook Committee,2009 This Handbook provides an overview of the development of models of metallic materials and how the materials are affected by processing This knowledge is central to understanding of the behaviour of existing alloys and the development of new materials that affect nearly every manufacturing industry Background on fundamental modeling methods provides the user with a solid foundation of the underlying physics that support the mechanistic method of many industrial simulation software packages The phenomenological method is given equal coverage      **Shape Casting of Metals** Murat Tiryakioğlu,Paul N. Crepeau,2005-02 Shape Casting of Metals the proceedings from the symposium held to honor John Campbell for his contributions to the metal casting field focuses on such topics as Casting process design and characterization for improved structural quality and reliability Process structure property performance interrelationships in cast metals Feeding and gating system design Shape casting process modeling and improvement and Molten metal quality and its effect on casting reliability From the 2005 TMS Annual Meeting held in San Francisco California February 13 17 2005

*Energy and Resource Efficiency in Aluminium Die Casting* Tim Heinemann,2015-07-25 This monograph provides a field proven approach to analyze industrial production with a cross company scope as well as regarding all hierarchical system levels of manufacturing enterprises The book exemplifies this approach in the context of aluminum die casting and presents a set of measures which allow a 30 percent energy reduction along the value chain The target audience primarily comprises researchers and experts in the field but the book may also be beneficial for graduate students      *Materials Science & Engineering* ,2005

## Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Esi Procast 2015**

In a global inundated with monitors and the cacophony of quick connection, the profound power and emotional resonance of verbal art often diminish into obscurity, eclipsed by the constant assault of sound and distractions. Yet, nestled within the lyrical pages of **Esi Procast 2015**, a captivating work of literary beauty that impulses with natural thoughts, lies an memorable journey waiting to be embarked upon. Published with a virtuoso wordsmith, that exciting opus guides viewers on a psychological odyssey, gently revealing the latent possible and profound impact stuck within the intricate internet of language. Within the heart-wrenching expanse of the evocative analysis, we can embark upon an introspective exploration of the book is main subjects, dissect their interesting writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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