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Advances in mold

tooling and glass

technologies have

enabled production of

molded glass optics that

are cost competitive

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with plastic optics for an increasing range of applications. FIGURE 1. Molded ...

MOLDED OPTICS:
Precision molded glass challenges plastic optics
"We are pleased to announce this major contract renewal today as it continues to demonstrate LightPath's ability to supply quality

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optical products
enhanced by our
innovative processes at
high volumes ...

Demand Remains
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The 3D time-of-flight
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combines a custom
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active illumination

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approach to provide a 360-degree by 60-degree field of view. Currently in beta-testing, the ...

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We do a lot of plastic optics design, and have a close relationship with a plastic optical-molding partner." Low-

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to-medium volume also
characterizes the
contract manufacturing
operations of Photonic

...

Optics business model
grows beyond a cottage
industry
drew on his 25 years of
experience in the design
and manufacture of
optical molds when he
established his own

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company with two employees in 2005. In 2012, Wodak moved the company, then with 54

...

Hybrid molding technology key to production of precision optics

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of Complex Electro-
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"I wanted to have that
incorporated into our
optics manufacturing.
To do that we're re-
launching ... that is

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typically not needed in a regular precision-molded part," he noted. "We design the runner

...

Empire Precision
Plastics develops
training program;
expands optics molding
business
Medical Product
Outsourcing published
an article about medtech

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and micromolding that made me think about the future of micro 3DP for medical devices.

“Smarter, faster, cheaper. Those three words have ...

Smaller, faster, cheaper:
The future of medical
device manufacturing
NIL Technology
(NILT), a leader in
advanced optical

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solutions, is launching
its highly advanced flat
optics technology
platform for near-
infrared (NIR) used in
3D sensing and LiDAR.
The technology ...

NIL Technology
Introduces Flat,
Multifunctional Optics
Platform for 3D Sensing
and LiDAR
Applications

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Designing lighter and thinner optics for everything from eyeglasses to mobile phone cameras. The technology to design and manufacture optical metamaterials is rapidly maturing, making commercial ...

Optical Metamaterials
Will Soon Be Ready for
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Market, According to
Lux Research

The global Additive
Manufacturing Market
is expected to reach
USD 23.33 billion by
2026, growing at a high
rate of 14.4%, according
to a new report by
Reports and Data.
Increasing government
support ...

Additive Manufacturing
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Market Share Growth Analysis Trend and Forecast Research Report

Micro molding is a molding process for the manufacture ... Rob Spiegel has covered manufacturing for 19 years, 17 of them for Design News. Other topics he has covered include automation, supply chain ...

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The Fundamentals of
Micro Molding

Additional Services:

Design Assistance ...

Technical Plastics

specializes in fine
tolerance injection

molded components and

assemblies for the

medical, optics, and

electronics industries.

Casting and Molding

Page 23/60

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(Rapid Tooling) Rapid Prototyping Services
Alpine Research Optics (ARO) has established its reputation for supplying high-performance laser optics manufacturing with ...
With FilmStar design and characterization software to design ...

Alpine Research Optics
Becomes the Go-to firm

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for Supplying High-Performance Laser Optics Manufacturing X2F's new molding technology enables the manufacture ... in product design, tooling, and material science for molded parts. Initial target applications include polymer-based optics with improved ...

X2F Appoints New
Page 25/60

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Technology Director as
Transformative Plastics
Manufacture
Molding Process Enters
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Expansion Phase

For nearly two decades, Jabil Optics has been recognized by leading technology companies as the premier service provider for advanced optical design, industrialization and manufacturing.

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Omnidirectional Sensor
Washington - The all-
virtual OSA Optical
Design and Fabrication
Congress ... can engage
in include the
fabrication of optics by
lasers, additive
manufacturing of optical
components, the use ...

Experts in space

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exploration, And
illumination and
interferometry to
headline 2021 OSA

Design Congress
TAIPEI, June 25, 2021
/PRNewswire/ --

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design and manufacturer
of fiber optic ... world's
first automated
production line for fiber
optics, which lowers the
cost of fiber optics ...

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BKSTEC Aims to
Replace Consumer-
grade Copper Cables by
Lowering Cost of Fiber
Optics through
Automation

ORLANDO, FL /
ACCESSWIRE / July 8,
2021 / ("LightPath," the
"Company," or "we"), a
leading vertically
integrated?global
manufacturer

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Molded Optics

of?proprietary optical
and infrared component
s?and?high-level assem
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...

While several available texts discuss molded plastic optics, none provide information on all classes of molded optics. Filling this gap,

Molded Optics: Design

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and Manufacture
presents detailed
descriptions of molded
plastic, glass, and
infrared optics. Since an
understanding of the
manufacturing process
is necessary to develop
cost-effective,
producible designs, the
book extensively covers
various manufacturing
methods, design
guidelines, trade-offs,

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best practices, and testing of critical parameters. It also discusses topics that often arise when designing systems with molded optics, such as mitigating stray light and mating systems by eye. The first three chapters of the book focus on subjects important to the design of systems using molded

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optics: optical design, visual optics, and stray light. Following these background chapters, the text provides in-depth information on the design and manufacture of molded plastic optics, molded glass optics, and molded infrared optics. The final chapter on testing emphasizes the special characteristics of molded optics. Experts

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in their particular areas, the authors draw on their considerable knowledge and real-world experiences to give a thorough account of the design and manufacture of molded plastic, glass, and infrared optics. The book will help readers improve their ability to develop systems that employ molded optics.

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A coherent overview of the current status of injection molded optics, describing in detail all aspects of plastic optics, from design issues to production technology and quality control. This updated second edition is supplemented by a chapter on the equipment and process of injection wells as

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well as a look at recent applications. The contributors, each one a leading expert in their discipline, have either a background in or strong ties to the industry, thus combining a large amount of practical experience. With its focus firmly set on practical applications, this is an indispensable reference for all those

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working in optics
research and
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Precision glass molding is a net-shaping process to fabricate glass optics by replicating optical features from precision molds to glass at elevated temperature.

The advantages of precision glass molding over traditional glass

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lens fabrication methods make it especially suitable for the production of optical components with complicated geometries, such as aspherical lenses, diffractive hybrid lenses, microlens arrays, etc. Despite of these advantages, a number of problems must be solved before this process can be used

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in industrial applications. The primary goal of this research is to determine the feasibility and performance of nonconventional optical components formed by precision glass molding. This research aimed to investigate glass molding by combining experiments and finite element method (FEM)

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based numerical simulations. The first step was to develop an integrated compensation solution for both surface deviation and refractive index drop of glass optics. An FEM simulation based on Tool-Narayanaswamy-Moynihan (TNM) model was applied to predict index drop of the molded optical glass.

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The predicted index value was then used to compensate for the optical design of the lens. Using commercially available general purpose software, ABAQUS, the entire process of glass molding was simulated to calculate the surface deviation from the adjusted lens geometry, which was applied to

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final mold shape modification. A case study on molding of an aspherical lens was conducted, demonstrating reductions in both geometry and wavefront error by more than 60%.

"Molding processes continue to innovate and push the boundaries of optical systems, not

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only for state-of-the-art, high-volume consumer products but also touching on almost every application where optics are used, from automotive headlights and medical endoscopes to thermal weapon sights for the warfighter. The most common optical molding technologies are injection molding of

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Optical plastics and precision glass molding. This Field Guide primarily focuses on these two technologies but also covers the full spectrum of optical molding. It provides a convenient and concise source of knowledge on optical molding technologies and will be a valuable addition to a publication base that is

Read Book Molded Optics rather limited"--

This book highlights the tools and processes used to produce high-quality glass molded optics using commercially available equipment. Combining scientific data with easy-to-understand explanations of specific molding issues and general industry information

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based on firsthand studies and experimentation, it provides useful formulas for readers involved in developing develop in-house molding capabilities, or those who supply molded glass optics. Many of the techniques described are based on insights gained from industry and research

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over the past 50 years, and can easily be applied by anyone familiar with glass molding or optics manufacturing. There is an abundance of information from around the globe, but knowledge comes from the application of information, and there is no knowledge without experience. This book

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provides readers with information, to allow them to gain knowledge and achieve success in their glass molding endeavors.

Molding tools in precision glass molding fail easily, even with protective thin film coatings applied. In this work, various efficient methods for assessing

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glass-coating interactions are developed, including a new, automated testing rig. Analysis of the testing results provides a better understanding of these mechanisms and how they are influenced by material properties and process parameters, so that the appropriate measures can be taken to prolong the life of the

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The main focus of this dissertation is to seek scientific knowledge and fundamental understanding of molding process for freeform optical lens fabrication by integrating freeform optical design, precision freeform molding making, numerical

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modeling of polymer lens forming process, and evaluation of the molded freeform optics.

Compared with conventional optics, freeform optics provides more flexibilities and better performance.

However, due to the complex nature of freeform optics manufacturing processes, the

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Design And quality
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productivity and quality is difficult to improve, which subsequently results in higher manufacturing cost.

Therefore, in order to create affordable freeform lenses with high quality, the method combining ultraprecision diamond machining and optical molding is proposed.

Ultraprecision diamond

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machining is a process that allows us to generate precision freeform optical features on mold surfaces without post polishing, while microinjection/compression molding is proven high volume manufacturing process used to reduce production cost. The diamond machining for both regular metal

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materials and brittle materials are discussed to obtain high quality molds with optical finish. In addition, two novel process designs are presented to fabricate hybrid glass-polymer achromatic lenses using compression molding and injection molding, respectively.

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High quality optical components for consumer products made of glass and plastic are mostly fabricated by replication. This highly developed production technology requires several consecutive, well-matched processing steps called a "process chain" covering all steps from

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Design, advanced machining and coating of molds, up to the actual replication and final precision measurement of the quality of the optical components. Current market demands for leading edge optical applications require high precision and cost effective parts in large volumes. For meeting

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these demands it is necessary to develop high quality process chains and moreover, to crosslink all demands and interdependencies within these process chains. The

Transregional Collaborative Research Center "Process chains for the replication of complex optical elements" at Bremen,

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Aachen and Stillwater worked extensively and thoroughly in this field from 2001 to 2012. This volume will present the latest scientific results for the complete process chain giving a profound insight into present-day high-tech production.

This classic resource provides a clear, well-illustrated introduction

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to the essentials of optical design-from basic principles to cutting-edge design methods.

A concise introduction to lens design, including the fundamental theory, concepts, methods and tools used in the field. Covering all the essential concepts and providing suggestions

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for further reading at the end of each chapter, this book is an essential resource for graduate students working in optics and photonics.

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