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Titolo	Processing of high temperature superconductors [[electronic resource]] : proceedings of the Processing of High Temperature Superconductors Symposium held at the 104th Annual Meeting of the American Ceramic Society, April 28-May 1, 2002 in St. Louis, Missouri / / edited by Amit Goyal ... [et al.]
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and High Temperatures by PLD; Development of Coated Conductors on Biaxially Textured Substrates: The Influence of Substrate Parameters; YBa2Cu3O O7- Films Through a Fluorine Free TMAP MOD Approach Inclined Substrate Pulsed Laser Deposition of YBCO Thin Films on Polycrystalline Ag SubstratesThe Growth Modes and Transport Properties of YBaCuO Prepared by Batch and Continuous Liquid Phase Epitaxy; Effect of Transverse Compressive Stress on Transport Critical Current Density of Y-Ba-Cu-O Coated Ni and Ni-W RABiTS Tapes; Phase and Microstructure Change of High Critical Current Density TFA-MOD YBCO Coated Conductor; Growth Kinetics and Texture of SOE NiO/Ni and Ni-Based Alloys RABiTS; Ion Texturing of Amorphous Yttria-Stabilized Zirconia to form a Template for YBa2Cu3O7 Deposition
YBCO/YSZ/Hastelloy Superconducting Tapes by IBAD Magnetron DepositionResidual Stress Measurement in YBCO Thin Films; Growth Kinetics and Texture of (Nd,Ce)2CuO4/ NiO Buffers on Ni-Based RABiTS; Ca-Doping of YBCO Thin Films; Demonstration of High Current Density YBCO Films on all Solution Buffers; Bulk Processing; Processing and Properties of Melt Processed Y-Ba-Cu-O Containing Depleted Uranium Oxide; Application of RE123-Bulk Superconductors as a Permanent Magnet in Magnetron Sputtering Film Deposition Apparatus Tailoring Dislocation Substructures for High Critical Current Melt-Textured YBa2Cu3O7Flux Pinning and Properties of Solid-Solution (Y, Nd)1+xBa2-xCu3O7- Superconductors; Studies of Grain Boundaries in Melt Textured YBa2Cu3Ox; High-Tc Bulk-Superconductor-Based Membrane-Magnetic Separation for Water Purification; Bulk Superconducting Function Elements for Electric Motors and Levitation; Processing and Properties of Gd-Ba-Cu-O Bulk Superconductor with High Trapped Magnetic Field; Synthesis and Sintering of MgB2 under High Pressure; Adhesive Coated HTS Wire and other Innovative Materials
Melting Equilibria of the BaF2-CuOx System

Sommario/riassunto

Included in this volume are papers on biaxial and triaxial crystallographic texturing, epitaxial growth on biaxially textured substrates, melt-processing of YBCO, and basic information about HTS materials concerning phase diagrams, measurement of physical properties, characterization, and effects of various defects including grain boundaries on supercurrent transmission.

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2.18.3 Faster, more accurate, and easier management -- 2.19 The Kafka platform for data scientists -- 2.20 Kafka APIs -- 2.21 Conclusion -- References -- 3 Accelerating graph analytics -- 3.1 Introduction -- 3.2 Graph analytics methods to deliver smarter AI -- 3.2.1 Semi supervised learning with graph algorithms -- 3.3 Data preparation -- 3.4 Steps to get started with graph machine learning model -- 3.4.1 Structured query-oriented knowledge graphs -- 3.4.2 Query-based feature engineering -- 3.4.3 Extending the use of graph algorithms -- 3.4.4 Approaches based on local similarity -- 3.4.5 Approaches that are based on global similarity -- 3.4.6 Approaches based on quasi-local similarity -- 3.5 Graph embeddings -- 3.5.1 Why graph embeddings are needed? -- 3.5.2 GNN and native learning -- 3.5.3 Based on the graph type -- 3.6 Applications -- 3.6.1 Classification of text -- 3.6.2 Translation by a neural computer -- 3.6.3 Image classification is a technique used in the field of image manipulation -- 3.6.4 Object detection is a feature that allows detecting of objects in the environment -- 3.6.5 Semantic segmentation is the process of separating words based on their semantic meaning -- 3.6.6 Combinatorial optimization is a technique for maximizing the number of options -- 3.7 Conclusion -- References -- 4 Introduction to IoT data analytics and its use cases -- 4.1 Background and context -- 4.1.1 Cost of compute -- 4.1.2 AI/ML frameworks and optimizations -- 4.1.3 Dedicated hardware components -- 4.1.4 Sensors and data -- 4.1.5 Pre-trained models -- 4.1.6 Retail -- 4.1.7 Medical -- 4.1.8 Industrial -- 4.1.9 Automotive -- 4.1.10 Education -- 4.1.11 Conclusion -- 4.2 IoT analytics system and concepts -- 4.2.1 Overview -- 4.2.2 Data ingestion -- 4.2.3 Analytics pipeline -- 4.3 Network -- 4.3.1 Wired network technologies -- 4.3.2 Wireless network technologies.
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Sommario/riassunto	Graph analytics are being empowered through novel analytics techniques to explore and pinpoint beneficial relationships between different entities such as organizations, people and transactions. This edited book presents the various aspects and importance of graph data science, with contributions by authors from academia and industry.