1. Record Nr. UNINA9910449925003321

Autore	Sollors Werner
Titolo	Interracialism [[electronic resource]] : black-white intermarriage in American history, literature and law / / Werner Sollors
Pubbl/distr/stampa	New York ; ; Oxford, : Oxford University Press, 2000
ISBN	1-280-65507-0 0-19-802951-9 1-4237-2951-X
Descrizione fisica	1 online resource (464p.)
Disciplina	306.8460973
Soggetti	Interracial marriage - United States - History Race relations in literature Miscegenation - United States - Law and legislation Electronic books. United States Race relations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Sommario/riassunto	Interracialism has formed, torn apart, defined and divided the American nation since its earliest history. This volume explores the primary texts of interracialism as a means of addressing core issues in American racial identity.

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Titolo	Digital Twins : Tools and Concepts for Smart Biomanufacturing / / edited by Christoph Herwig, Ralf Pörtner, Johannes Möller
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-71660-0
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (267 pages)
Collana	Advances in Biochemical Engineering/Biotechnology, , 1616-8542 ; ; 176
Disciplina	660.63 338.476606
Soggetti	Biochemical engineering Biotechnology Computational intelligence Manufactures Bioprocess Engineering Computational Intelligence Machines, Tools, Processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Towards the development of digital twins for the biomanufacturing industry -- When is an In silico representation a digital twin? A biopharmaceutical industry approach to the digital twin concept -- Digitalization and bioprocessing, regulatory aspects -- Usage of Digital Twins along a typical process development cycle -- Mechanistic Mathematical Models as a Basis for Process Optimization and Digital Twins -- Digital Seed Train Twins and Statistical Methods -- Digital Twins in Biomanufacturing.
Sommario/riassunto	This is the first of two volumes that together provide an overview of the latest advances in the generation and application of digital twins in bioprocess design and optimization. Both processes have undergone significant changes over the past few decades, moving from data-driven approaches into the 21st-century digitalization of the bioprocess industry. Moreover, the high demand for biotechnological

products calls for efficient methods during research and development, as well as during tech transfer and routine manufacturing. In this regard, one promising tool is the use of digital twins, which offer a virtual representation of the bioprocess. They reflect the mechanistics of the biological system and the interactions between process parameters, key performance indicators and product quality attributes in the form of a mathematical process model. Furthermore, digital twins allow us to use computer-aided methods to gain an improved process understanding, to test and plan novel bioprocesses, and to efficiently monitor them. This book explains the mathematical structure of digital twins, their development and the model's respective parts, as well as concepts for the knowledge-driven generation and structural variability of digital twins. Covering fundamentals as well as applications, the two volumes offer the ideal introduction to the topic for researchers in academy and industry alike. .