1. Record Nr. UNINA9910963123103321

Autore	Holmes Frederic Lawrence
Titolo	Meselson, Stahl, and the replication of DNA : a history of "the most beautiful experiment in biology" / / Frederic Lawrence Holmes
Pubbl/distr/stampa	New Haven, CT, : Yale University Press, 2001
ISBN	9786611730451 9781281730459 1281730459 9780300129663 0300129661
Edizione	[1st ed.]
Descrizione fisica	1 online resource (1 online resource (xii, 503 p.)) : ill
Disciplina	572.8/6
Soggetti	DNA replication - Experiments - History Molecular biology - Experiments - History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references (p. [449]-496) and index.
Nota di contenuto	Machine generated contents note: Chapter One The Replication Problem 11 -- Chapter Two Meselson and Stahl 49 -- Chapter Three Twists and Turs 75 -- Chapter Four Crossing Fields: Chemical Bonds to Biological Mutants 116 -- Chapter Five Dense Solutions 157 -- Chapter Six The Big Machine 183 -- Chapter Seven Working at High Speed 215 -- Chapter Eight The Unseen Band 272 -- Chapter Nine One Discovery, Three Stories 303 -- Chapter Ten An Extremely Beautiful Experiment 319 -- Chapter Eleven Centrifugal Forces 352 -- Chapter Twelve The Subunits of Semiconservative Replication 388 -- Chapter Thirteen Images of an Experiment 412 -- Chapter Fourteen Afterword 435.
Sommario/riassunto	In 1957 two young scientists, Matthew Meselson and Frank Stahl, produced a landmark experiment confirming that DNA replicates as predicted by the double helix structure Watson and Crick had recently proposed. It also gained immediate renown as a "most beautiful" experiment whose beauty was tied to its simplicity. Yet the investigative path that led to the experiment was anything but simple, Frederic L. Holmes shows in this masterful account of Meselson and Stahl's quest.This book vividly reconstructs the complex route that led

	to the Meselson-Stahl experiment and provides an inside view of day-to-day scientific research--its unpredictability, excitement, intellectual challenge, and serendipitous windfalls, as well as its frustrations, unexpected diversions away from original plans, and chronic uncertainty. Holmes uses research logs, experimental films, correspondence, and interviews with the participants to record the history of Meselson and Stahl's research, from their first thinking about the problem through the publication of their dramatic results. Holmes also reviews the scientific community's reception of the experiment, the experiment's influence on later investigations, and the reasons for its reputation as an exceptionally beautiful experiment.

2.

Record Nr.	UNINA9910910498103321
Autore	Smirnov Evgenij
Titolo	Building Modern Active Directory : Engineering, Building, and Running Active Directory for the Next 25 Years / / by Evgenij Smirnov
Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2024
ISBN	9798868809415 9798868809408
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (525 pages)
Disciplina	005.268
Soggetti	Directory services (Computer network technology)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Ch 1: Problems with AD -- Ch 2:. Modern AD -- Ch 3: Engineering Topology -- Ch 4: Engineering Lookup -- Ch 5. Engineering Authentication -- Ch 6: Engineering Authorization -- Ch 7: Engineering Configuration -- Ch 8: Engineering Administration -- Ch 9: Building a Modern AD -- Ch 10: Operating a Modern AD -- Ch 11: Transitioning to a Modern AD -- Ch 12: Conclusion.
Sommario/riassunto	Break the vicious circle of designs perpetuating the errors of the past and “just click next and accept the defaults” implementations preventing a secure and reliable future. This book looks at the typical patterns and antipatterns in Active Directory (AD) design, deployment,

and operations and provides an approach to building and operating AD that is based on engineering (analyzing and fulfilling requirements) rather than design (formulating requirements). The book starts with an historical overview of AD and its future 25 years later. You then learn about the challenges that organizations running AD are facing today followed by understanding how to avoid them while learning modern requirements for more efficient and effective AD performance. After that, you go through business requirements influencing the AD topology along with ways to engineer information lookup to protect high-value objects. The book looks at two main protocols and the many dialects that AD offers to engineer an authentication service that fulfills modern requirements while leaving insecure legacy configurations behind. Managing AD from both the security and usability perspectives is discussed next in the book. Building, operating, and transitioning to a modern AD is demonstrated in detail. The book guides you with the next steps of your journey to achieve a secure and reliable AD. After reading this book, you will be able to bridge the gap between the two approaches by analyzing real-world business requirements, explaining the decision-making process in both design and engineering, and ultimately providing concrete engineering guidelines for typical implementation scenarios. What Will You Learn Build a modern Active Directory (AD), leaving behind design antipatterns that are not valid anymore Build a “secure by design” AD and accommodate legacy technology without compromising the overall security Understand advanced AD functionality such as controlling object visibility and partitioning Kerberos authentication by Authentication Policies Operate a modern AD, react to changing business requirements, and respond to ever-evolving security threats .