Record Nr.	UNINA9910715075903321
Autore	Larrimer Bruce I.
Titolo	Beyond tube-and-wing : the X-48 blended wing-body and NASA's quest to reshape future transport aircraft / / Bruce I. Larrimer
Pubbl/distr/stampa	Washington, DC : , : NASA, , 2020 ©2020
Descrizione fisica	1 online resource (viii, 263 pages) : illustrations (some color)
Collana	NASA aeronautics book series NASA SP ; ; 2020-644
Disciplina	629.133349
Soggetti	X-48 (Research plane) Blended wing-body aircraft - United States - Design and construction - History History United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (pages 227-236) and index.
Nota di contenuto	Seeking "an aerodynamic renaissance" "The concept appears to be a winner" From concept to design Small-scale testbeds NASA's first effort : the blended wing-body low-speed vehicle Aerodynamic testing and vehicle fabrication The X-48B and X-48C take to the air Epilogue. Towards a full-size airplane Appendix. X-48B and X- 48C test flights at NASA Dryden.
Sommario/riassunto	"This book details the remarkable efforts to develop a new aircraft configuration known as the Blended Wing-Body (BWB). Responding to a challenge from NASA, McDonnell Douglas Corporation initiated studies in the early 1990s to determine if this new configuration could bring about significant advantages over conventional sweptwing, streamlined tube, and swept-tail designs. Research precipitated the design and construction of two small-scale demonstrators: the X-48B. After McDonnell Douglas' merger with Boeing, the X-48B flew 92 test flights before modification into the X-48C, which in turn flew 30 flights under the auspices of NASA's Environmentally Responsible Aviation Program"

1.