1.	Record Nr.	UNINA9910958619303321
	Titolo	Wake turbulence : an obstacle to increased air traffic capacity / / Committee to Conduct an Independent Assessment of the Nation's Wake Turbulence Research and Development Program ; Aeronautics and Space Engineering Board ; Division on Engineering and Physical Sciences ; National Research Council of the National Academies
	Pubbl/distr/stampa	Washington, D.C., : National Academies Press, 2008
	ISBN	9786611300272 9780309178426 0309178428 9781281300270 1281300276 9780309113809 0309113806
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (102 p.)
	Disciplina	629.132/32
	Soggetti	Wakes (Aerodynamics) Turbulence
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references.
	Nota di contenuto	""Front Matter""; ""Preface""; ""Acknowledgments""; ""Contents""; ""Tables and Figures""; ""Summary""; ""1 Introduction""; ""2 Organizational Challenges in Wake Turbulence Research""; ""3 Technical Challenges in Wake Turbulence Research""; ""4 Wake Turbulence Program Plan""; ""5 Findings and Recommendations""; ""Appendixes""; ""Appendix A: Statement of Task""; ""Appendix B: Committee Biographies""; ""Appendix C: List of Speakers""; ""Appendix D: Acronyms and Abbreviations""; ""Appendix E: Sample Wake Encounter Reporting Form""
	Sommario/riassunto	Without major changes, the current air transportation system will be unable to accommodate the expected increase in demand by 2025. One proposal to address this problem is to use the Global Positioning System to enable aircraft to fly more closely spaced. This approach,

however, might be limited by the wake turbulence problem, which can be a safety hazard when smaller aircraft follow relatively larger aircraft too closely. To examine how this potential hazard might be reduced, Congress in 2005 directed NASA to request a study from the NRC to assess the federal wake turbulence R&D program. This book provides a description of the problem, an assessment of the organizational challenges to addressing wake turbulence, an analysis of the technical challenges in wake turbulence, and a proposal for a wake turbulence program plan. A series of recommendations for addressing the wake turbulence challenge are also given.