



AEROSPACE RECOMMENDED PRACTICE	ARP1821™	REV. C
	Issued 1982-09 Reaffirmed 2016-04 Revised 2022-09	
Superseding ARP1821B		
(R) Aircraft Ground Flotation Analysis Methods		

RATIONALE

ICAO has introduced a new standardized method (ACR/PCR) which will replace the current ACN/PCN method. The document is updated to reflect the latest recommended methods.

1. SCOPE

This SAE Aerospace Recommended Practice (ARP) includes recommended ground flotation analysis methods for both paved and unpaved airfields with application to both commercial and military aircraft.

1.1 Purpose

The purpose of this document is to identify the recommended aircraft ground flotation analysis methods that should be used for aircraft landing gear design and analysis.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

AIR1780 Aircraft Flotation Analysis

2.1.2 ICAO Publication

Available from International Civil Aviation Organization, 999 University Street, Montreal, Quebec H3C 5H7, Canada, Tel: +1 514-954-8019, <http://www.icao.int/>.

Aerodrome Design Manual - Part 3 - Pavements - Second Edition - 1983: Procedure for Pavements Meant for Heavy Aircraft (ACN-PCN Method) Section 1.1

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