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For Aircraft

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# **Design Considerations For Aircraft Bridges Asce Library**

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**Considerations For  
Aircraft Bridges**

The objective of this

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paper is to present the methodologies

associated with the design of bridges

utilized to support large aircraft loadings.

Unlike their highway counterparts, there is

very little information published and made

available to airport bridge designers by

those agencies

responsible for the

development of airport operation standards.

Consideration is given

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to the derivation of aircraft loading parameters ranging from 450 to 590 Mg (1.0 million–1.3 million lb) vehicles, as ...

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Journal of ...**

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abstract, and list of authors), clicks on a figure, or views or ...

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## **Considerations for Aircraft Bridges**

design considerations for aircraft bridges The aim of this paper is to present methodologies associated with the design of bridges used to support large aircraft loadings. Unlike for highway bridges, there is little

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information published and made available to airport bridge designers by those agencies responsible for the development of airport operation standards.

## **DESIGN CONSIDERATIONS FOR AIRCRAFT BRIDGES**

According to my AASHTO manual the wheel load distribution factors for concrete on



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steel I-beam stringers and prestressed concrete girders is based on "Design of I-Beam Bridges", by N.M. Newmark, 1948. I have not read the article, but I would be concerned that the d.f.'s would apply to the large airplane wheel loads. Any thoughts?

**Airplane Bridge  
Design Guides -  
Structural**

*Page 9/28*

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**engineering ...**

considerations required for aircraft bridges, compared to those designed for highways and railroads. Factors that must be addressed include unusual design specifications, requirements for airside and landside geometry, and designing structural components to transfer large aircraft loads. These projects are

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## **Aircraft Bridges Take Off - Aspire Bridge**

Aircraft bridges must be designed for the substantial forces exerted by aircraft braking, affecting the lateral load in substructure design. Braking force of 70 percent of the live load is assumed in two recent taxiway bridge

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designs. And "deck design is more apt to be controlled by punching shear than flexure due to the heavy wheel loads."

## **Aircraft bridge - Wikipedia**

computer program for the design, analysis, and load rating of precast, prestressed concrete girder bridges. A design example followed by a load rating analysis

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illustrates the engineering computations performed by PGSuper. PGSuper uses a state-of-the-art iterative design algorithm and other iterative computational procedures. Only the final

**Precast, Prestress  
Bridge Girder Design  
Example**

SOME

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THE DESIGN OF LONG  
SPAN BRIDGES  
AGAINST PROGRESSIVE  
COLLAPSE Theodore P.  
Zoli<sup>1</sup>, Justin

Steinhouse<sup>2</sup> ... 2

Bridge Design Engineer

- HNTB Corporation, 5

Penn Plaza, NY, NY

10001, USA . the

hangers for arch

bridges). The use of

high factors of safety

could be argued as an

**SOME**

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## **THE DESIGN OF LONG SPAN BRIDGES**

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The aircraft design process is a loosely defined method used to balance many competing and demanding requirements to produce an aircraft that is strong, lightweight, economical and can carry an adequate payload while being sufficiently reliable to

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safely fly for the design life of the aircraft.

Similar to, but more exacting than, the usual engineering design process, the technique is highly ...

### **Aircraft design process - Wikipedia**

The initial plans are prepared regarding the project, including the characteristics of the desired bridge, the site details, and the requirement of



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resources. The bridge design will be determined by the type of bridge being

constructed. The main types of the bridges are beam, arch, truss, cantilever, and suspension.

**Bridge Design,  
Planning, and  
Construction - Bright  
Hub ...**

Moulds, Bruce A.  
(2001): Design  
Considerations for

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Aircraft Bridges. In:  
Journal of Bridge  
Engineering ... Tomoo /  
Hino, Shinichi (2011):  
Development of the  
Steel-Concrete  
Composite Deck Bridge  
of Taxiway For  
hypothetical aircraft  
load. Presented at:  
35th Annual  
Symposium of IABSE /  
52nd Annual  
Symposium of IASS /  
6th International ...

**Taxiway bridges**

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**from around the world | Structural**

**Design Considerations  
for Aircraft Generator  
with Start Function**

2008-01-2871. The

paper explores the  
design implications of  
accommodating the  
engine start function in  
a large variable

frequency starter-  
generator. Using data  
from an existing  
225kVA starter-

generator the trade off  
between the stator

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current, which impacts  
the size and rating of

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**Design  
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Aircraft Generator  
with Start ...**

A Guide to Bridge  
Design and  
Construction tells you  
everything you need to  
know about bridge  
construction, repair,  
design, and  
maintenance. It also  
shares with you the

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interesting stories related with the greatest, tallest, and longest bridges of the world. We discuss about the various aspects related to bridge construction, which include seismic retrofitting of bridges, planning of bridge ...

**A Guide to Bridge Design and Construction - Bright Hub ...**

Design and

*Page 21/28*

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Construction 12795

West Alameda Parkway

. P.O. Box 25287

Denver, CO

80225-0287 . National

Park Service U.S.

Department of the

Interior . DSC

TECHNICAL BULLETIN .

08-01. Subject:

Pedestrian/Trail Bridge

Design Considerations.

Discussion: While many

pedestrian and trail

bridge projects appear

to be straight-forward,

there are a

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**DSC TECHNICAL  
BULLETIN 08-01**

Practical Design  
Considerations That  
Can Extend The  
Service Life Of Metal  
Buried Bridge And  
Culvert Structures By  
Darrell Sanders, P.E.  
Buried bridges can be  
described as a buried  
structure with a clear  
span of 20 feet or  
greater that supports  
an embankment and  
engages the passive

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support of the backfill material surrounding it.

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**Practical Design Considerations That Can Extend The ...**

Understand the benefit of wildlife crossings.

Evaluate the considerations that go into the planning and design, and will affect the feasibility of wildlife crossings.

Recognize the benefits of buried bridges for wildlife crossings



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**Design**  
**Considerations for**  
**Wildlife Crossings**

Our engineers will design and deliver a Boarding Bridge manufactured to your specific needs, choosing the right size configuration, the drive system, the elevation type (hydraulic or electro-mechanical), a two or three body configuration, the most efficient air

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conditioning system  
and other design  
features, such as glass  
or steel tunnels,

increasing or  
decreasing telescope  
extension or GSE  
integration.

## **Passenger Boarding Bridges for Airports - ADELTE**

For supersonic aircraft  
design, (a few of) the  
design considerations  
are: The base  
(rearward facing blunt

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area) area should be

minimum as possible.

The wetted area should be minimum as

possible, as it affects the skin friction drag

(and in turn parasitic drag). Have the

smallest fuselage diameter.

Copyright code: d41d8  
cd98f00b204e9800998  
ecf8427e.

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