

Flood resilience and resistance for critical infrastructure

Flood resilience involves designing an infrastructure asset, or adapting an existing infrastructure asset so that although it comes into contact with flood water during floods, no permanent damage is caused, structural integrity is maintained and, if operational disruption does occur, normal operation can resume rapidly after a flood has receded. Flood resistance involves designing an infrastructure asset, or adapting an existing infrastructure asset so that floodwater is excluded during flood events and normal operation can continue with no disruption occurring to the essential services the asset provides.

The publication provides an overview of the regulatory framework and outlines the main issues now faced by the industry in this area. A brief introduction is given to the principles of flood risk management (FRM) to place flood resilience and resistance into a wider context. A range of case studies is provided that describes the lessons identified by infrastructure owners and operators who have suffered flooding problems in the past.

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