



Using Value-Focused Thinking to Evaluate the Practicality of Porous Pavement Parking Areas on Air Force Installations

By Christopher D. Bulson

BiblioScholar. Paperback. Book Condition: New. Paperback. 120 pages. Dimensions: 9.7in. x 7.4in. x 0.2in. Natural runoff processes have been altered by urban development; impervious surfaces (rooftops, highways, parking areas) and their associated stormwater systems channel runoff from a vast area into one concentrated outflow. This stormwater runoff can cause erosion, flooding, landslides, and significant damage to aquatic ecosystems. Runoff from highways and parking areas has also been shown to contain high levels of suspended solids, heavy metals, and hydrocarbons. Porous pavements allow infiltration of water through typically impervious surfaces, reducing stormwater volumes and acting as a pollutant filtration system. Since there is currently no methodology for Air Force decision-makers to compare conventional and porous pavements, a model was created using Value-Focused Thinking (VFT) to evaluate different paving options. Four porous paving alternatives were compared against two conventional paving alternatives at three separate geographic locations. These alternatives were scored using a total of 12 evaluation measures that were identified as important to the pavement selection process. Structural turf, a porous alternative, was found to be the best option for northern tier locations, while conventional asphalt was the best choice for central and southern areas. VFT was also shown to be an ineffective methodology for comparing conventional and porous paving alternatives, objectively weighing economic costs...



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