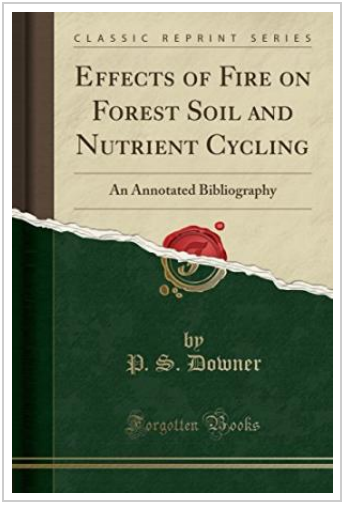

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Effects of Fire on Forest Soil and Nutrient Cycling: An Annotated Bibliography (Classic Reprint) (Paperback)

By P S Downer

Forgotten Books, United States, 2018. Paperback. Condition: New. annotated edition. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Effects of Fire on Forest Soil and Nutrient Cycling: An Annotated Bibliography The forest floor and underlying mineral soil contain most of a forest s nutrient reserve. Intensive and long term production on forested land requires that forestry practices be carefully evaluated in light of their potential to modify the cycling of nutrients. Among questioned practices, prescribed burning has received considerable attention because fire is highly visible, and uncontrolled fire is potentially disastrous. However, naturally occurring fire has repeatedly influenced forest development in many geographic regions. Research to determine how important forest nutrients are affected by fire has had conflicting results. Both site improvement and detriment following fire have been documented, and the problem remains largely unresolved. In theory, certain elements, notably carbon (c) and nitrogen (n), are volatilized when organic material is burned. Among other nutrients, phosphorus (p), potassium (k), calcium (ca), and magnesium (mg) remain on the surface in ash. Subsequent movement of the ash material into mineral soil would increase base saturation and ph. Research results have not led to clear conclusions because fire...

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