

Vilfredo Pareto and the Integrability Problem of Demand Functions

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ABSTRACT

On the occasion of the centennial since the publication of Vilfredo Pareto's *Manuale di economia politica, con una introduzione alla scienza sociale*, Pareto's treatment of integrability problem is reexamined. This problem concerns whether one can "recover" a preference ordering that generates the given demand function. While the problem was mathematically solved by Antonelli in 1886, we found that Pareto used two different kinds of integrability conditions according to the measurability of utility. This finding will shed a new light on the discussion of the Pareto's attitude toward the measurability of utility.