Remark 3.2.19. [01M] This wording is commonly used: "let I be a non-
empty set of indices, and A_i a family of setsCDLeng indexed by $i \in I^{"}$;
this, in axiomatic theory, should be written as "let I be a non-empty set,
let X be a set, and $A : I \to \mathcal{P}(X)$ a function; we will write A_i instead of
$A(i)$ ". (With this writing we have that A_i are all subsets of X).