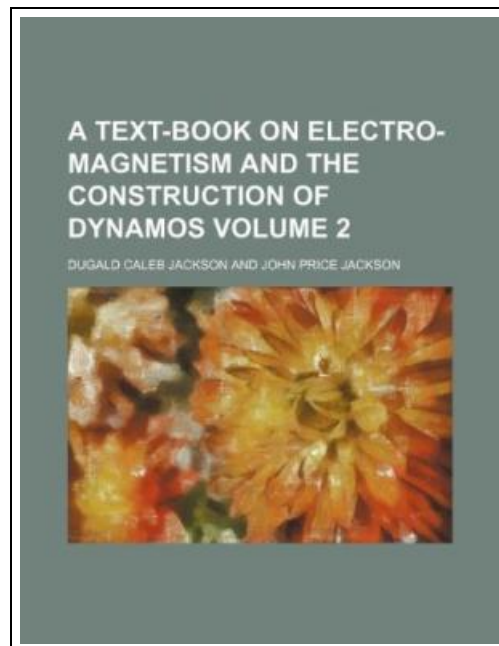


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1896 Excerpt: .from its position, cause a motor action on the lagging machine (b), and a corresponding generator action on the leading machines connected to the bus bars; and it thus tends to draw the machines into synchronism (Sect. 86), for it will be noticed by reference to the figure that  $u$  is in phase with  $m$  and in opposition to  $u$ , and that  $m$  and  $n$  are respectively the components of  $a$  and  $b$ , which are in opposition, and therefore working on the parallel circuit. If the machine,  $b$ , led the bus bar curve, then the synchronizing current would retard instead of assisting it, as the figure plainly shows. The effect of the synchronizing current in dragging the machines into step depends upon its magnitude and relative phase, while its magnitude depends: (i) upon the algebraic sum, or, what is the same thing, the arithmetical difference between the instantaneous pressure at the bus bars and the instantaneous pressure developed by the machine; (2) upon the reciprocal of the impedance of the machine armature. In other words, the instantaneous synchronizing current flowing through any one machine which is connected to bus bars is  $c + Jt$  where  $e$ , and  $e_h$  are the instantaneous pressures of the bus bars and the armature, which are always of opposite sign and equal when the machines are in exact synchronism and step, and  $R_a$  and  $L_a$  are respectively the resistance and the inductance of the armature circuit including the leads from the bus...



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