that f(x) is continuous for that value of x. If by choosing the variation in x sufficiently small we can make the variation in y uniformly small throughout a range of values of x, we say that f(x) and the corresponding graph y=f(x) is uniformly continuous. An analogous statement covers the case of u=f(x,y) and the corresponding surface.

Mathematicians, self-conscious of the difficulties of explaining these concepts, hardly expect the non-mathematician, or

even the ordinary mathematician, to keep up with the progress on the frontiers of these theoretical spaces.

What is important is that it be realized that it is important for these studies to continue. Out of them may come a decade or a century in the future some concept that will illumine the universe as glimpsed by the 200-inch telescope or the atom as created or smashed by the powerful cyclotron.

Science News Letter, January 21, 1939

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AERONAUTICS

Controllable Pitch Propellers To Be of Wood and Plastic

Weight Saving of as Much as One-Third is Claimed; Are Built of Laminated Spruce with Plastic Cover

ERONAUTICAL engineering has a new prescription for the tough problem of what to do about propellers getting larger and heavier as engines and planes grow up. a new controllable pitch propeller made of wood and synthetic plastic.

Developed abroad, Schwarz-type propellers will be making their appearance on American airplanes shortly, the Society of Automotive Engineers learned from Fred E. Weick, of the Engineering and Research Corporation of Riverdale, Md.

Weight saving of as much as one-third in the larger propellers is possible, Mr. Weick, who is the inventor of the tricycle landing gear, told the society. About 40 of them, 1 anging in size from six to 16 feet in diameter, have already been built in this country. One of them, an 8-foot propeller, rated at 300 horsepower and weighing 41.5 pounds complete, has an approved type certificate issued by the Civil Aeronautics Authority.

The propeller blades are built of lami-

nated spruce and are protected by a plastic covering. The blades merge into a root of impregnated hard wood, which Mr. Weick calls compreg. The compreg root is screwed into a steel ferrule supporting the blade in the hub. The controllable pitch mechanism turns the steel ferrules.

Wood propellers ordinarily are not of the far more efficient controllable pitch type because of the impossibility of making movable wooden roots attached directly to the controlling mechanism. Because ordinary wood's shear strength is not high enough, screwing wooden roots into metal ferrules is not practical. But the impregnated wood overcomes this difficulty. A phenol-formaldehyde resin is used to impregnate sugar maple, beech, or birch to form the compreg.

Propeller development during the last few years has been characterized, among other things, by repeated predictions that increasing weights would set a limit to propeller size, as more and more of the engine's power would be required in accelerating the propeller, let alone developing a thrust to pull the plane through the air. But aeronautical engineers have developed several methods, of which this is the newest in the United States, of saving weight and pushing the theoretical limit further back.

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Name Jehovah Derived From "To Be Kindly"

THE NAME Jehovah, or Yahveh, in the Old Testament, much debated by scholars, is declared to be derived from a Semitic language root meaning "to be kindly."

Speaking before the annual meeting of the Society of Biblical Literature and Exegesis, Dr. R. Marcus of Columbia University expressed doubt that the Hebrew divine name—written without vowels Yhwh—came from verbal root hwy, conveying the idea of a deity creating and controlling the elements.

The original form, he argued, was Yawiy, which later by confusion with the root hwy was pronounced Yahweh.

Reporting a study of Jewish writers' books on Jesus Christ, Dr. E. S. Tanner of the University of Tulsa said that "the estimation of Jesus by post-war Jewish writers is generally more favorable than for centuries."

Jewish writers' interpretations of Jesus range all the way from "negative evaluations," Dr. Tanner finds, to views equal to those of liberal Christians.

The contemporary writings on Old Testament events unearthed at ruins of Lachish in Palestine were discussed by Dr. A. Sperber of the Jewish Theological Seminary, who finds in them good evidence for his theory that two dialects of Hebrew were spoken in Bible days. The southern and northern dialects, used respectively in Judah and in Israel, can be detected, he said, by study of inscriptions and also parallel passages in Old Testament books.

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