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II. Pour la théorie de l'Elasticité et de la Résistance: *a)* la stabilité et la solidité de constructions à parois minces; *b)* la limite de rupture; *c)* la théorie de la plasticité.

III. En Mécanique rationnelle, les problèmes des mouvements vibratoires, en particulier: *a)* vibration des bateaux et des véhicules; *b)* l'acoustique des salles et les problèmes qui s'y rattachent.

Les communications doivent être annoncées avant le 1<sup>er</sup> mars 1930, au Secrétaire-général, M. le Professeur W. WEIBULL, Ecole technique supérieure, Valhallavägen, Stockholm, Suède.

### Etats-Unis. — Thèses de doctorat.

Pendant l'année 1928, les universités américaines ont décerné 49 doctorats ès sciences, traitant plus particulièrement de sujets de mathématiques et de physique mathématique. En voici la liste d'après le *Bull. of the American math. Society* (XXXV, 3):

A. A. ALBERT (Chicago): Algebras and their radicals and division algebras. — H. E. ARNOLD (Yale): The rational space quintic curve of the second species and its relation to the rational plan quartic curve. — M. M. BEENKEN (Chicago): Surfaces in five-dimensional space. — T. C. BENTON (Penn): On continuous curves which are homogeneous except for a finite number of points. — A. H. BLUE (Iowa): On the structure of sets of points of classes one, two, and three. — G. B. BRIGGS (Princ.): On types of knotted curves. — P'ei Yuan CHOU (Calif.): The gravitational field of a body with rotational symmetry in Einstein's theory of gravitation. — L. W. COHEN (Mich.): On subsets of separable metric space homeomorphic with subsets of the linear continuum. — H. A. DAVIS (Cornell): Involutional transformations belonging to a linear complex. — H. A. DOBELL (Cornell): On the geometry of the triangle. — D. C. DUNCAN (Calif.): Rational quintic curves autopolar with respect to a finite number of conics. — J. M. EARL (Minn.): Polynomials of best approximation on an infinite interval. — J. J. GERGEN (Rice): Generalized lacunae. On Taylor's series admitting the circle of convergence as a cut. On accessible points on the boundary of a three dimensional region. — A. O. HICKSON (Chicago): An application of the calculus of variations to boundary-value problems. — E. L. HILL (Minn.): Quantum mechanics of the rotational distortion of spin multiplets in molecular spectra. — R. L. JACKSON (Chicago): The boundary-value problem of the second variation for parametric problems in the calculus of variations. — R. L. JEFFERY (Cornell): The sequences of functions which define a definite integral containing a parameter. — M. M. JOHNSON (Chicago): Tensors of the calculus of variations. — B. W. JONES (Chicago): Representation by positive ternary quadratic forms. — E. G. KELLER (Chicago): On the origin

of a planet from a ring system. — G. H. KEULIGAN (Johns Hopkins): Vibrations of an elongated U-bar. — M. S. KNEBELMAN (Princeton): Collineations and motions in generalized spaces. — Mark KORMES (Columbia): On basis sets. — L. LA PAZ (Chicago): An inverse problem of the calculus of variations. — W. T. MACCREADIE (Cornell): On the stability of the motion of a viscous fluid. — M. MARDEN (Harvard): On the location of the roots of the jacobian of two binary forms and of the derivative of a rational function. — W. L. MOORE (Ill.): On the geometry of the Weddle surface. — D. C. MORROW (Chicago): The determination of all quaternary quadratic forms which represent every positive integer. — F. W. PERKINS (Harvard): On the oscillation of harmonic functions. — J. W. PETERS (Johns Hopkins): Invariants of sets of points under inversion. — O. J. PETERSON (Mich.): On the rational plane quintic with three cusps. — C. G. PHIPPS (Minn.): Problems in approximation by functions of given continuity. — A. W. RICHESON (Johns Hopkins): Pentagons inscribed in circles. — W. C. RISSELMAN (Minn.): Approximation to a given function by means of polynomials in another given function. — V. B. ROJANSKY (Minn.): The Stark effect of hydrogenic atoms in the new quantum mechanics. — W. E. ROTH (Wisconsin): A solution of the matrix equation  $P(X) = A$ . — C. A. RUPP (Chicago): An extension of Pascal's theorem to space of  $r$  dimensions. — N. E. RUTT (Penn.): Concerning the cut points of a continuous curve when the arc curve contains exactly  $n$  independent arcs. — S. A. SCHELKUNOFF (Columbia): On certain properties of the metrical and generalized metrical groups in linear spaces of  $n$  dimensions. — A. A. SHAGHOIAN (Calif.): Solution of homogeneous linear difference equations by means of infinite determinants. — C. D. SMITH (Iowa): On generalized Tchebycheff inequalities in mathematical statistics. — F. E. SMITH (Catholic): The triangles in- and circumscribed to the triangular symmetric rational quartic curve. — DAN SUN (Chicago): Projective differential geometry of quadruples of surfaces with points in correspondence. — E. L. THOMPSON (Chicago): Systems of two differential equations from the Lie group standpoint. — M. WARD (California): The foundation of general arithmetic. — M. J. WEISS (Stanford): Primitive groups which contain substitution of prime order  $p$  and of degree  $6p$  or  $7p$ . — C. O. WILLIAMSON (Chicago): Stability of an air plane with rotating propeller. — D. W. WOODARD (Penn.): Two dimensional analysis situs, with special reference to the Jordan curve-theorem. — KO-CHUEN YANG (Chicago): Various generalizations of Waring's problem.

#### Nouvelles diverses. — Nominations et distinctions.

**Angleterre.** — L'Université de Cambridge a conféré le doctorat honoris causa à M. Paul LANGEVIN, professeur au Collège de France.