

CONTENTS

		Page
	Preface By Solomon Lefschetz	v
I.	A Rotated Vector Approach to the Problem of Stability of Solutions of Pendulum-Type Equations By George Seifert	1
II.	Asymptotically Autonomous Differential Systems By L. Markus	17
III.	Nonlinear Differential Equations Systems By Edmund Pinney	31
IV.	On a Nonlinear Differential Equation Containing a Small Parameter By Violet B. Haas	57
V.	Critical Points at Infinity and Forced Oscillation By Ralph E. Gomory	85
VI.	On Certain Critical Points of a Differential System in the Plane By Samuel Barocio	127
VII.	On the Total Number of Singular Points and Limit Cycles of a Differential Equations By Felix Haas	137
VIII.	Banach Spaces and the Perturbation of Ordinary Differential Equations By George Hufford	173
IX.	A Fixed Point Theorem By Walter T. Kyner	197
х.	Perturbation Theorems for Nonlinear Ordinary Differential Equations By S. P. Diliberto and G. Hufford	207
XI.	A Note on the Existence of Periodic Solutions of Differential Equations By S. P. Diliberto and M. D. Marcus	237
XII.	An Invariant Surface Theorem for a Nondegenerate System By Marvin D. Marcus	243
XIII.	An Application of Periodic Surfaces (Solution of a Small Divisor Problem) By Stephen P. Diliberto	257
.VIX	Repeating Solutions for a Degenerate System By Marvin D. Marcus	261
•VX	Bounds for Periods of Periodic Solutions By Stephen P. Diliberto	269
XVI.	One-Dimensional Repeating Curves in the Nondegenerate Case By Paul Koosis	277