		Page
TRA	FACE NSLATORS' PREFACE 'HOR'S PREFACE TO THE ENGLISH EDITION	v ix xi
	I. INTRODUCTION TO THE THEORY OF PLANE, STEADY JET FLOWS	
A.	Some Information on Kinematics	1
В.	A Remark About the Symmetry Principle	8
c.	Basic Assumptions	11
D.	Kirchhoff's Method	15
E.	Zhukovskii's Method	26
F.	Chaplygin's Singular-Point Method	47
	II. FLOW FROM A VESSEL	
A.	Flow from a Vessel with Oblique Walls	57
В.	Symmetric Orifice in a Rectangular Vessel	64
C.	Flow from the Opening between Two Flat Plates	68
D.	Vessel with a Funnel-Shaped Bottom and Borda's Nozzle	71
E.	Lateral Flow from a Channel	78
F.	Flow from a Rectangular Vessel with an Orifice at a Corner	89
	III. INFINITE FLOW PAST A POLYGONAL OBSTACLE	
A.	Flow around a Wedge	95
В.	Jet Flow around a Plate with a Stagnation Region	
	in Front of It	110

		Page
c.	Flow past a Plate with a Separation from Its Upper Surface	119
D.	Criticism of Jet Theory	128
	IV. FLOW AROUND CURVILINEAR OBSTACLES	
A.	Levi-Civita's Method	131
в.	Flow around a Circular Cylinder	143
c.	Villat's Integro-Differential Equation and the Existence and Uniqueness of the Solution	159
D.	Sedov's Method	171
		177
	V. FLOW AROUND A BODY AT SMALL CAVITATION NUMBER	
A.	Cavitation	181
в.	Cavitating Flow around a Flat Plate	191
c.	Symmetric Cavitating Flow around a Wedge	207
D.	Cavitating Flow around a Circular Cylinder	220
E.	Cavitating Flow around a Thin Profile at an Arbitrary Angle of Attack	231
	VI. FLOW OF LIMITED JETS AROUND OBSTACLES	201
A.	Flow around a Wedge in a Jet of Finite Width	243
В.	Flow around a Flat Plate in the Presence of a Wall	261
c.	Cascade Flow	273
D.	A Cylinder between Two Walls	286
E.	Symmetric Cavitating Flow around a Wedge in a Channel	296
F.	Cavitating Cascade Flow	306
	VII. PLANING SURFACES AND HYDROFOILS	
A.	Phenomenon of PlaningThe Planing Flat Plate	315

		Page
В.	Planing over the Surface of a Fluid of Finite Depth Tandem Flat Plates	323
c.	Hydrofoils beneath a Free Surface	333
	VIII. VARIOUS FREE-JET PROBLEMS	
Α.	Collision of Jets. Hollow Charges and Armor-Piercing Jets	353
В.	Jet Flows with Singularities in the Region Occupied by the Fluid	366
c.	Other Problems	377
	IX. UNSTEADY FLOWS	
A.	Flat Plate in an Accelerated Flow	391
B,	Motion of a Streamlined Contour in a Separated Flow	399
c.	Weakly Perturbed Jet Flow	408
D.	Surface Impact of a Wedge	435
	X. JET FLOW OF COMPRESSIBLE FLUID	
A.	Chaplygin's Equation for Two-Dimensional Steady Flow of a Gas	447
в.	Exact Solutions to Chaplygin's Equation for Subsonic Flow.	452
c.	Chaplygin's Approximate Method	477
D.	A Survey of Extensions of Chaplygin's Approximate	
	Method	490
	XI. AXISYMMETRIC FLOW	
A.	Problem Statement and Approximate Methods of Solution	501
В.	A Survey of References on Axisymmetric Jet Flows	514
c.	The Asymptotic Law of Jet Shape with Applications	

		Page
	XII. FLOW OF A HEAVY FLUID AND THE EFFECTS OF SURFACE TENSION	
A.	Exact Solutions	541
в.	The Influence of Surface Tension on Free Surface Flows	549
c.	Approximate Solutions for Heavy Fluid Flows	553
RI	EFERENCES	569
S	UBJECT INDEX	581