1.	Introduction		1.1
		1.1. Interlisp as a Programming Language	1.1
		1.2. Interlisp as an Interactive Environment	1.3
	•	1.3. Interlisp Philosophy	1.5
		1.4. How to Use this Manual	1.7
		1.5. References	1.8
2.	Litatoms		2.1
		2.1. Using Litatoms as Variables	2.2
		2.2. Function Definition Cells	2.5
		2.3. Property Lists	2.5
		2.4. Print Names	2.7
		2.5. Characters and Character Codes	2.12
3.	Lists		3.1
		3.1. Creating Lists	3.4
		3.2. Building Lists From Left to Right	3.6
		3.3. Copying Lists	3.8
		3.4. Extracting Tails of Lists	3.9
		3.5. Counting List Cells	3.10
		3.6. Logical Operations	3.11
		3.7. Searching Lists	3.12
		3.8. Substitution Functions	3.13
		3.9. Association Lists and Property Lists	3.15
		3.10. Sorting Lists	3.17
		3.11. Other List Functions	3.19
4.	Strings		4.1
5.	Arrays		5.1
6.	Hash Arrays		6.1
		6.1. Hash Overflow	6.3

TABLE OF CONTENTS TOC 1

		6.2. User-Specified Has	shing Functions	6.4
7.	Numbers and	Arithmetic Function	ons	7.1
***************************************		7.1. Generic Arithmetic	c	7.3
		7.2. Integer Arithmetic		7.4
		7.3. Logical Arithmetic	Functions	7.8
		7.4. Floating Point Arit	hmetic	7.11
		7.5. Other Arithmetic F	unctions	7.13
8.	Record Packag	je		8.1
		8.1. FETCH and REPLAC	ΞE	8.2
		8.2. CREATE		8.3
		8.3. TYPE?		8.5
		8.4. WITH		8.5
		8.5. Record Declaration	ns	8.6
		8.5	5.1. Record Types	8.7
		8.5	5.2. Optional Record Specifications	8.14
		8.6. Defining New Rec	ord Types	8.15
		8.7. Record Manipulati	on Functions	8.16
		8.8. Changetran		8.17
		8.9. Built-In and User D	Data Types	8.20
9.	Conditionals and Iterative Statements			9.1
		9.1. Data Type Predicates		9.1
		9.2. Equality Predicate	s	9.2
		9.3. Logical Predicates		9.3
		9.4. The COND Conditi	onal Function	9.4
		9.5. The IF Statement		9.5
		9.6. Selection Function	ıs	9.6
		9.7. PROG and Associa	ted Control Functions	9.7
		9.8. The Iterative Statement		9.9
		9.8	3.1. I.s.types	9.10
		9.8	3.2. Iteration Variable I.s.oprs	9.12
		9.1	3.3. Condition I.s. oprs	9.15
		9.1	3.4. Other I.s. oprs	9.16
		9.1	3.5. Miscellaneous Hints on I.S.Oprs	9.17
		9.8	3.6. Errors in Iterative Statements	9.19

TOC.2

			9.8.7. Defining New Iterative Statement Operators	9.20
10.	Function Defi	inition, Manip	ulation, and Evaluation	10.1
		10.1. Function Typ	pes	10.2
			10.1.1. Lambda-Spread Functions	10.3
			10.1.2. Nlambda-Spread Functions	10.4
			10.1.3. Lambda-Nospread Functions	10.5
			10.1.4. Nlambda-Nospread Functions	10.6
			10.1.5. Compiled Functions	10.6
			10.1.6. Function Type Functions	10.6
		10.2. Defining Fur	nctions	10.9
		10.3. Function Eva	aluation	10.11
		10.4. Iterating and	d Mapping Functions	10.14
		10.5. Functional A	rguments	10.18
		10.6. Macros		10.21
			10.6.1. DEFMACRO	10.24
			10.6.2. Interpreting Macros	10.28
11.	. Variable Bindings and the Interlisp Stack		11.1	
		11.1. The Spaghetti Stack		11.2
		11.2. Stack Functi	ons	11.4
			11.2.1. Searching the Stack	11.5
			11.2.2. Variable Bindings in Stack Frames	11.6
			11.2.3. Evaluating Expressions in Stack Frames	11.7
			11.2.4. Altering Flow of Control	11.8
			11.2.5. Releasing and Reusing Stack Pointers	11.9
			11.2.6. Backtrace Functions	11.11
			11.2.7. Other Stack Functions	11.13
		11.3. The Stack ar	nd the Interpreter	11.14
		11.4. Generators		11.16
		11.5. Coroutines		11.18
		11.6. Possibilities	Lists	11.20
12.	Miscellaneous		12.1	
		12.1. Greeting an	d Initialization Files	12.1
		12.2. Idle Mode		12.4
		12.3. Saving Virtu	ual Memory State	12.6

TABLE OF CONTENTS TOC.3

12.4.	. System Version Information			12.11	
12.5.	Date And Time Functions				
12.6.	6. Timers and Duration Functions				
12.7.	Resources			12.19	
		12.7.1.	A Simple Example	12.20	
		12.7.2.	Trade-offs in More Complicated Cases	12.22	
		12.7.3.	Macros for Accessing Resources	12.23	
		12.7.4.	Saving Resources in a File	12.23	
12.8.	Pattern Mate	ching		12.24	
		12.8.1.	Pattern Elements	12.25	
		12.8.2.	Element Patterns	12.25	
		12.8.3.	Segment Patterns	12.27	
		12.8.4.	Assignments	12.28	
		12.8.5.	Place-Markers	12.29	
		12.8.6.	Replacements	12.29	
		12.8.7.	Reconstruction	12.30	
		12.8.8.	Examples	12.31	

TOC.4