

Eine Bibliographie zur  
nichtlinearen Approximationstheorie

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Diese Bibliographie ist mit Unterstützung des von der Deutschen Forschungsgemeinschaft getragenen Sonderforschungsbereiches 72 an der Universität Bonn entstanden und als Manuskriptsvervielfältigt worden.

Bonn 1974

Im letzten Jahrzehnt hat sich die nichtlineare Approximationstheorie so ausgedehnt, daß es uns zweckmäßig erschien, eine Bibliographie über dieses Gebiet zusammenzustellen. Wir waren selbst überrascht, daß sich eine Liste mit über 500 Titeln ergab, obwohl Arbeiten, welche die lineare Theorie, optimale Quadraturformeln oder die Approximation mit Nebenbedingungen behandeln, ausgeklammert wurden und wir eine absolute Vollständigkeit anstrebten, aber nicht erreichen konnten.

Um das Verzeichnis dennoch übersichtlich zu halten, haben wir sie nach 14 Stichworten weiter unterteilt. Weil die Grenzen fließend sind, bringt eine solche Unterteilung natürlich ihre Probleme mit sich. Wir hoffen, daß sie für den Leser nützlich ist, selbst wenn er die eine oder andere Arbeit in ein Nachbargebiet eingeordnet hätte. Zur Vermeidung von Komplikationen sind einige Arbeiten unter mehreren Stichworten aufgeführt.

Danker möchten wir allen denen, die durch ihre Hinweise zur Vervollständigung beigetragen haben. Unser besonderer Dank gilt Herrn de Boor in Madison und Herrn Stechkin in Moskau, die uns ihre eigenen umfangreichen Bibliographien zur Verfügung stellten. Schließlich sind wir dem Sonderforschungsbereich 72 "Approximation und Optimierung in einer anwendungsbezogenen Mathematik" für die Publikation dieses Berichts dankbar.

Münster und Bonn, im Oktober 1974

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### Zur Einteilung

Die Arbeiten, bei denen die Approximation mit rationalen Funktionen (R), Exponentialsummen (E), Gamma - Polynomen (G), Spline - Funktionen (S) oder sonstigen speziellen Familien (F) im Vordergrund steht, sind unter den aufgeführten Stichworten eingeordnet. Wegen der Vielzahl der Arbeiten zur rationalen Approximation wurden die Arbeiten über numerische Methoden (RN) sowie über Lage der Pole, Approximationsgüte und Asymptotik (RP) getrennt aufgeführt. Wenn die approximierende Funktionenmenge nicht spezifiziert ist, wird zwischen den Arbeiten zur Numerik (NN), zur Tschebyscheff - Approximation (NT), und zur Approximation in abstrakten Räumen (NR) unterschieden. Sonstiges ist unter N eingeordnet, sofern es sich nicht um Lehrbücher (L), Tabellenwerke (T) oder Tagungsberichte und Sammelbände (TS) handelt.

### Bemerkungen zur Schreibweise

Beim Druck wurden die Tief- und Hochstellung von Indizes unterdrückt und das Symbol " $\infty$ " wurde durch "oo" ersetzt.

EXPONENTIAL APPROXIMATION ( E )

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